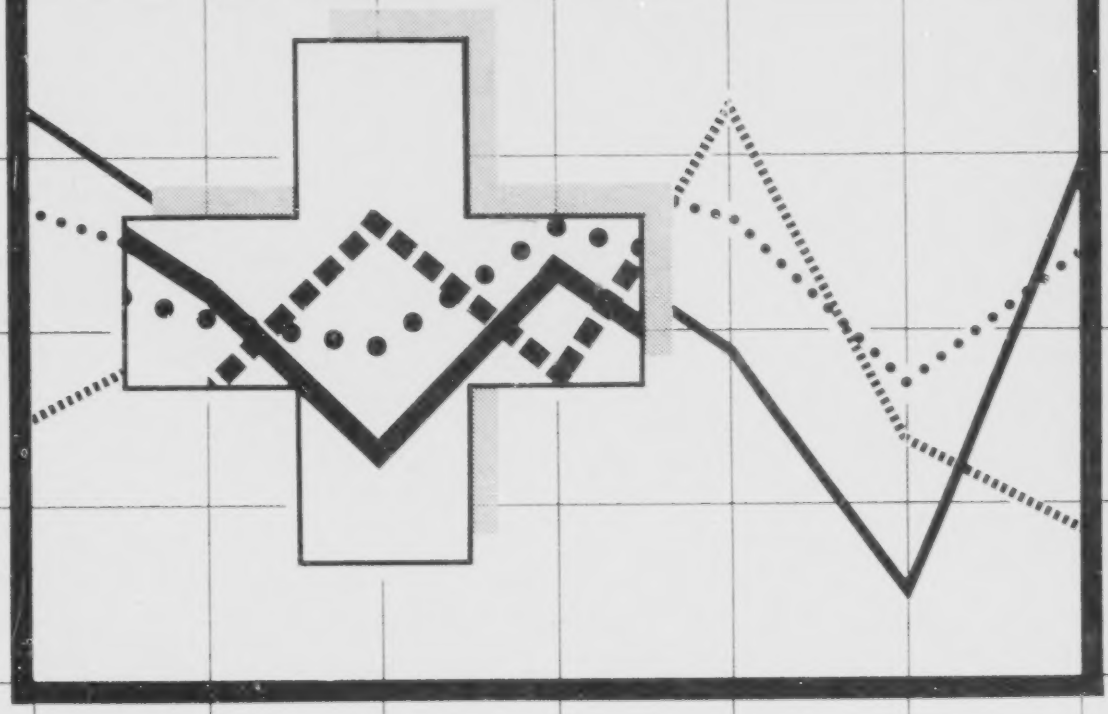
1982 Iowa Accident Facts



Iowa Department of Transportation

Foreward

The format of the vehicle pages in the 1982 report emphasizes the number of **accidents** by vehicle type.

The 1982 summary again includes alcohol-related accident information (including trends, time of day, day of week, and detailed statistics on the driver, vehicle and environment for alcohol-related accidents); collisions by vehicle type; and accident information for each county by road system. In addition, the individual vehicle pages include seat belt usage information developed from the accident data.

Several items should be noted. Accident information concerning the Driver, Machine and Environment for each vehicle type is contained on facing pages. Percentages are based on known information; unknown cases are also noted.

Starting in 1979, Iowa fatality figures include all persons who died as a result of a traffic accident on public roads within 30 days of the accident. Previous traffic fatality figures included all persons who died within one year of the accident. The change was made to conform to nationwide standards for reporting highway fatalities.

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of Transportation

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Acknowledgement

The Iowa Department of Transportation wishes to express appreciation to all law enforcement agencies and officers for their work in accident investigation which made this report possible. All information concerning Iowa traffic accidents was taken from report forms provided by investigating officers and drivers involved in accidents.

We hope this information will be of value in analyzing the causes of traffic accidents in Iowa and that it emphasizes the need for concerned, well-prepared drivers and a safe driving environment.

Prepared by
Office of Safety Programs

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Glossary

Traffic accident: Iowa law requires motorists to report any accident which involves one or more vehicles, and results in death, personal injury or property damage of at least $500. The information in this report, however, is based only on those accidents which occurred on public roads.

Fatal accident: Accident in which one or more persons are killed.

Personal injury accident: Accident in which no one is killed, but one or more persons are injured.

Property damage accident: Accident in which no one is killed or injured, but there is property damage of $500 or more.

Fatality: Person killed as a result of a traffic accident.

Alcohol-related: An accident where either a driver, bicyclist, or pedestrian is listed on the motor vehicle accident report as drinking prior to the accident.

Vehicle miles: Iowa vehicle-mile figures are the estimated total number of miles traveled on Iowa primary and secondary highways, urban and rural roads, and streets by all vehicles during a given period.

Fatality rate: Number of fatalities per 100 million vehicle miles.

Accident rate: Number of accidents per 100 million vehicle miles, unless otherwise stated.

SUMMARY
General

1982: A look at Iowa

Accidents by month		Fatal Accidents by month	Fatalities
61,549		431	480
5,692	Dec.	39	46
4,901	Nov.	42	44
5,068	Oct.	34	38
4,073	Sept.	45	53
4,378	Aug.	48	54
4,479	July	46	48
4,288	June	21	22
4,814	May	49	54
5,000	April	42	48
4,788	March	30	38
5,816	Feb.	17	17
8,252	Jan.	18	18

In Iowa there was...

1 accident every 8.5 minutes

1 driver out of every 19.4 involved in an accident

1.3 lives lost per day because of traffic accidents. (A total of 480 lives were lost in 1982.)

71.0 persons injured per day because of traffic accidents. (A total of 25,905 persons were injured in 1982.)

In Iowa, motor vehicle accidents decreased 9.8 percent in 1982 from the 68,263 accidents recorded in 1981. Fatalities decreased 21.6 percent in 1982 from 612 fatalities reported in 1981.

Nationally there were:

18,100,000 motor vehicle accidents

38,899 fatal accidents

43,721 fatalities

N.A. persons injured

Nationally, motor vehicle accidents increased 0.6 percent in 1982, compared to the 18,000,000 accidents in 1981. Fatalities decreased 11.3 percent in 1982 from the 49,301 fatalities reported in 1981.

SUMMARY
Iowa Trends 1970-1982

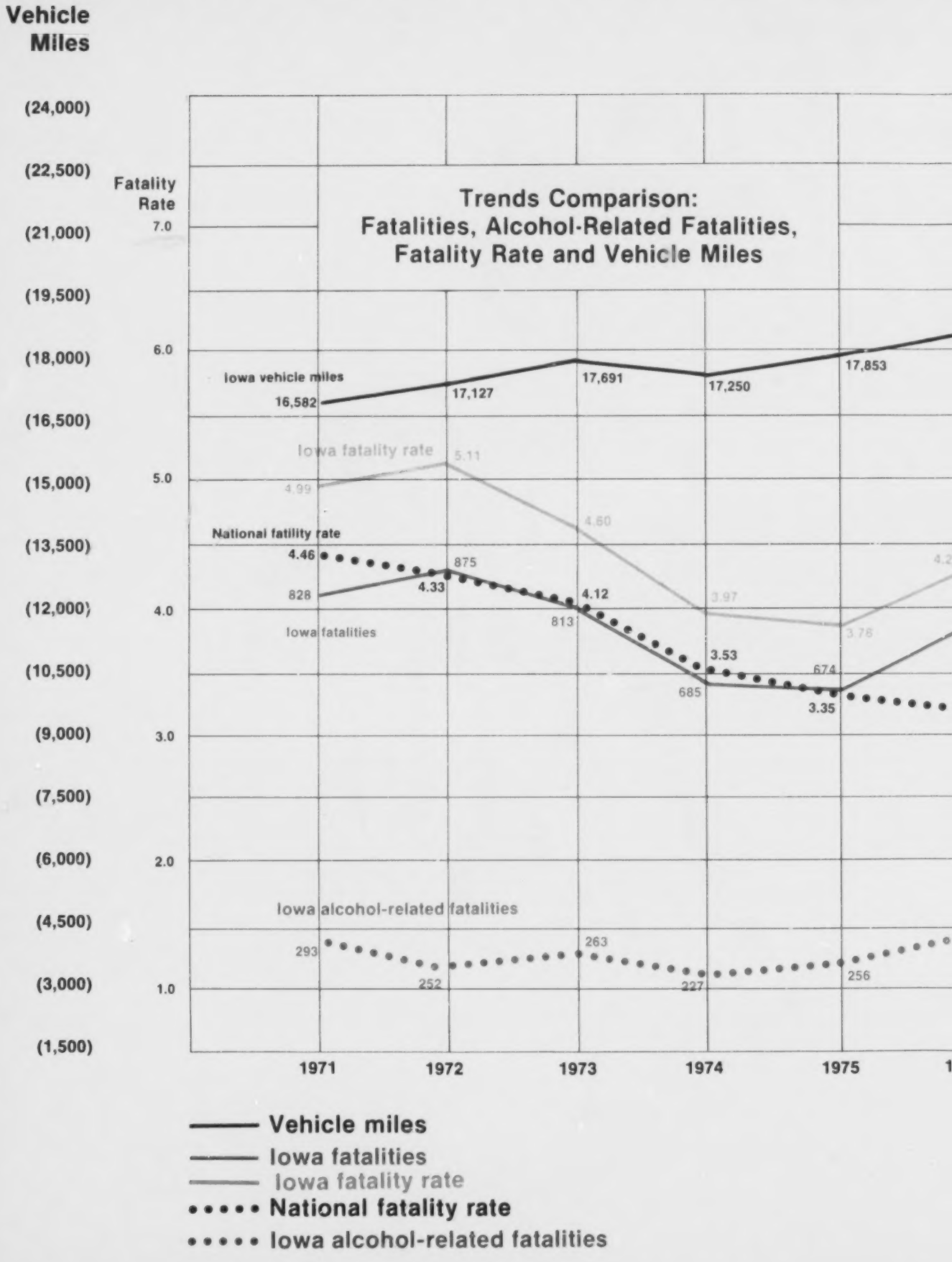
Year	All Acc.	Fatalities	Persons Injured	Fatal Acc.	Injury Acc.	Vehicle Miles (Million)	Fatality[2] Rate	Fatal[2] Acc. Rate	All[2] Acc. Rate	Licensed Drivers	Motor Vehicle Registrations
1970	87,808	912	33,101	752	22,339	16,053	5.68	4.68	547.0	1,678,262	1,839,530
1971	87,100	828	31,599	681	21,411	16,582	4.99	4.11	525.3	1,704,137	1,916,850
1972	91,918	875	35,484	722	23,814	17,127	5.11	4.22	536.7	1,752,595	2,012,245
1973	96,620	813	35,059	682	24,683	17,691	4.60	3.86	546.2	1,787,169	2,095,330
1974	91,117	685	31,741	583	22,851	17,250	3.97	3.38	528.2	1,846,870	2,178,530
1975	94,825	674	32,802	578	23,082	17,853	3.78	3.24	531.1	1,865,754	2,250,417
1976[1]	98,000	785	34,096	663	24,218	18,441	4.26	3.60	531.4	1,959,150	2,300,721
1977	87,771	640	32,289	561	22,358	19,028	3.36	2.95	461.3	2,085,647	2,356,327
1978	91,213	650	31,631	563	21,651	19,467	3.34	2.89	468.6	2,398,656	2,474,790[3]
1979	86,969	655[4]	29,972	566[4]	20,727	18,959	3.45	2.99	458.7	2,419,501	2,540,547[3]
1980	77,800	626[4]	29,100	541[4]	20,280	18,305	3.42	2.96	425.0	2,408,793	2,554,379[3]
1981	68,263	612[4]	28,776	529[4]	19,945	18,715	3.27	2.83	364.8	2,472,614	2,592,604[3]
1982	61,549	480[4]	25,905	431[4]	17,933	18,194[6]	2.64	2.37	338.3	1,977,911[5]	2,577,994[3]

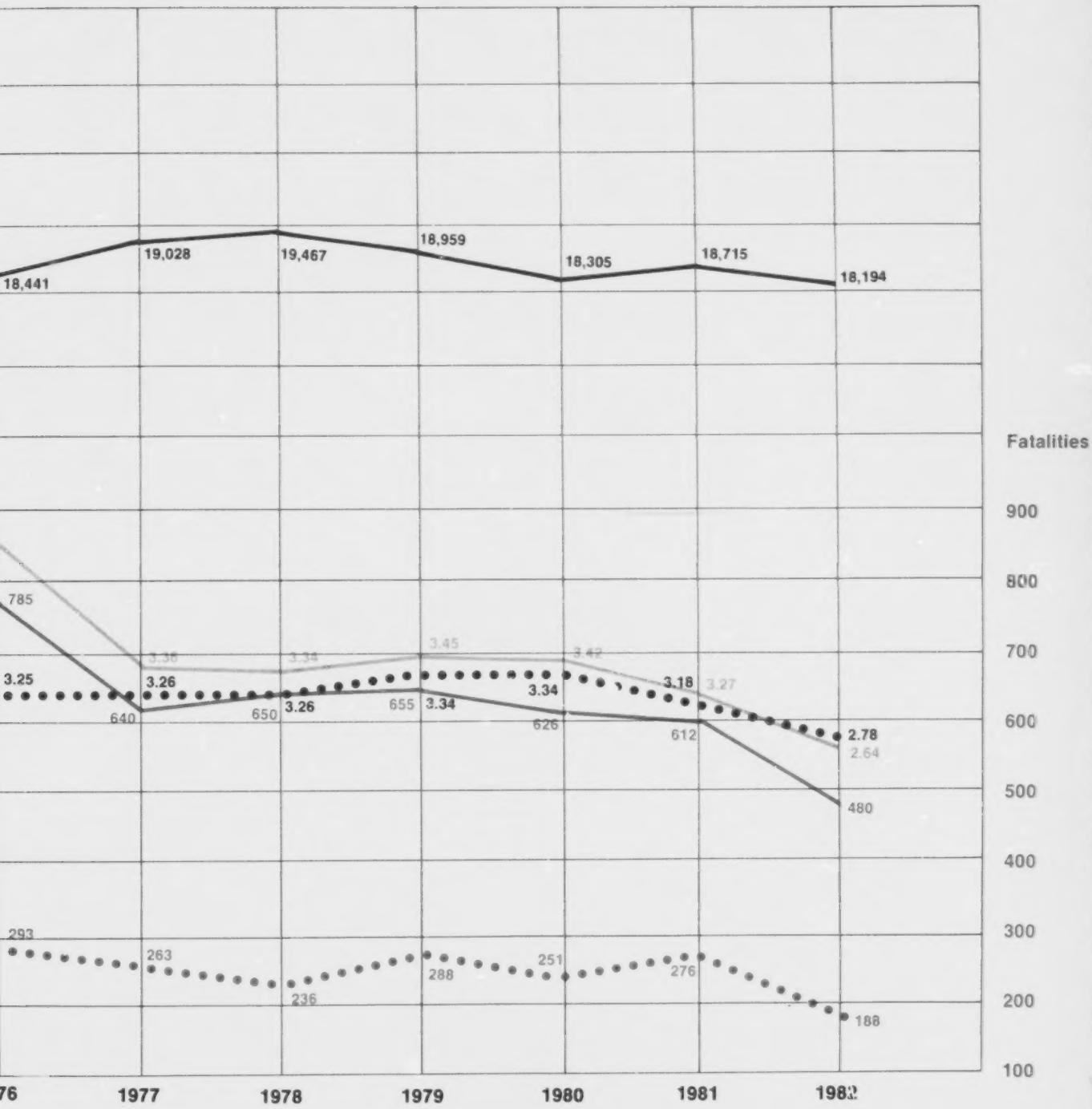
1 All accident figures for 1976 are estimated except for figures on fatal accidents.
2 Per 100 million vehicle miles traveled.
3 Revised by DOT Office of Safety Programs to exclude trailers, travel trailers and mobile homes. Vehicles registered to Iowa non-residents are included.
4 Beginning with 1979, figures for fatalities and fatal accidents are based on persons who died within 30 days of the traffic accident. Previous years' totals included persons who died within one year of the accident.
5 Drop in number of licensed drivers is due to more accurate method of computation.
6 As of July 15, 1983.

Year	All[1] Acc.	Fatalities	Persons[2] Injured	Fatal Acc.	Vehicle[3] Miles (Billion)	Fatality[4] Rate	Fatal[4] Acc. Rate	All[4,5] Acc. Rate	Licensed[3,6] Drivers	Motor Vehicle[3,6] Registrations
1970	16,400,000[5]	52,627	2,961,000	NA	1,110	4.74	NA	1,477.5	111,542,787	111,242,295
1971	17,000,000[5]	52,542	4,044,000	NA	1,179	4.46	NA	1,441.9	114,425,900	116,330,037
1972	16,600,000[5]	54,589	3,761,000	NA	1,260	4.33	NA	1,317.5	118,414,474	122,556,550
1973	15,600,000[5]	54,052	2,960,000	NA	1,313	4.12	NA	1,188.1	121,545,736	130,024,945
1974	15,600,000	45,196	4,075,000	NA	1,281	3.53	NA	1,217.8	125,426,582	134,899,955
1975	16,500,000	44,525	4,225,000	39,161	1,328	3.35	2.95	1,242.5	129,790,666	137,912,779
1976	16,800,000	45,523	4,107,000	39,747	1,402[6]	3.25[5]	2.84[5]	1,198.3	134,035,641	143,476,236
1977	17,600,000	47,878	4,392,000	42,210[5]	1,467[5]	3.26	2.88[5]	1,199.7	138,120,893	146,973,718
1978	18,300,000	50,331	3,827,000	44,433	1,545[5]	3.26[5]	2.88[5]	1,184.5	140,843,907	153,282,476
1979	18,100,000	51,093[5]	4,248,000[5]	45,223[5]	1,529[5]	3.34	2.96	1,184.4	143,283,995	157,291,431
1980	17,900,000	51,091[5]	3,694,000[5]	45,284[5]	1,528[5]	3.34[5]	2.96[5]	1,171.5	145,295,036	161,490, 159
1981	18,000,000	49,301[5]	5,019,000[5]	44,000[5]	1,550[6]	3.18[5]	2.84[5]	1,153.8	147,075,169[6]	164,287,643[6]
1982	18,100,000[7]	43,721[7]	NA	38,899[7]	1,571[6]	2.78[7]	2.48[7]	1,152.1	149,059,000[6]	166,464,000[6]

Figures obtained from U.S. Department of Transportation, National Highway Traffic Safety Administration, unless otherwise noted. All rates calculated by the Office of Safety Programs.

1. Figures from National Safety Council.
2. National Health Interview System, National Center for Health Statistics.
3. Federal Highway Administration, Highway Statistical Division.
4. Per 100 million vehicle miles traveled.
5. Updated/revised.
6. Estimated.
7. Preliminary.


Vehicle Miles
(24,000)
(22,500)
(21,000)
(19,500)
(18,000)
(16,500)
(15,000)
(13,500)
(12,000)
(10,500)
(9,000)
(7,500)
(6,000)
(4,500)
(3,000)
(1,500)
Fatality Rate
7.0
6.0
5.0
4.0
3.0
2.0
1.0
Trends Comparison:
Fatalities, Alcohol-Related Fatalities,
Fatality Rate and Vehicle Miles
Iowa vehicle miles
16,582
17,127
17,691
17,250
17,853
Iowa fatality rate
4.99
5.11
4.60
3.97
3.78
National fatility rate
4.46
4.33
4.12
3.53
3.35
Iowa fatalities
828
875
813
685
674
Iowa alcohol-related fatalities
293
252
263
227
256
1971
1972
1973
1974
1975
Vehicle miles
Iowa fatalities
Iowa fatality rate
National fatality rate
Iowa alcohol-related fatalities



* Alcohol-related means officer indicated driver, operator or pedestrian had been drinking.

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Age	Licensed Drivers*	Drivers Involved in Accidents	Drivers Involved in Fatal Acc.	Acc. Rate**†	Fatal Acc. Rate**†	Persons Killed***
15 & younger	44,925	878	14	195.4	3.1	46
16	46,122	3,846	20	833.9	4.3	16
17	36,925	4,918	33	1,331.9	8.9	28
18	44,186	5,106	27	1,155.6	6.1	23
19	45,754	4,826	25	1,054.8	5.5	18
20	49,188	4,325	25	879.3	5.1	19
21	52,005	3,873	16	744.7	3.1	11
22	51,219	3,681	29	718.7	5.7	21
23	49,442	3,380	30	683.6	6.1	19
24	47,960	3,123	18	651.2	3.8	15
25-34	454,741	23,535	141	517.5	3.1	90
35-44	309,977	12,567	85	405.4	2.7	50
45-54	245,451	8,638	58	351.9	2.4	36
55-64	242,251	7,261	45	299.7	1.9	29
65-74	156,610	4,716	20	301.1	1.3	23
75 & older	101,155	2,568	32	253.9	3.2	36
Total (age known)	1,977,911	97,241	618			480
Age unknown		4,738	8			
GRAND TOTAL	1,977,911	101,979	626	515.6	3.2	480

Sex	Licensed Drivers*	Drivers Involved in Accidents	Drivers Involved in Fatal Acc.	Acc. Rate**†	Fatal Acc. Rate**†	Persons Killed
Male	1,010,410	66,916	475	662.3	4.7	333
Female	967,501	31,826	143	329.0	1.5	147
Total (sex known)	1,977,911	98,742	618			480
Sex unknown		3,237	8			
GRAND TOTAL	1,977,911	101,979	626	515.6	3.2	480

* Includes instruction permits and school permits (permits to drive to and from school)

** Accidents/fatal accidents per 10,000 licensed drivers

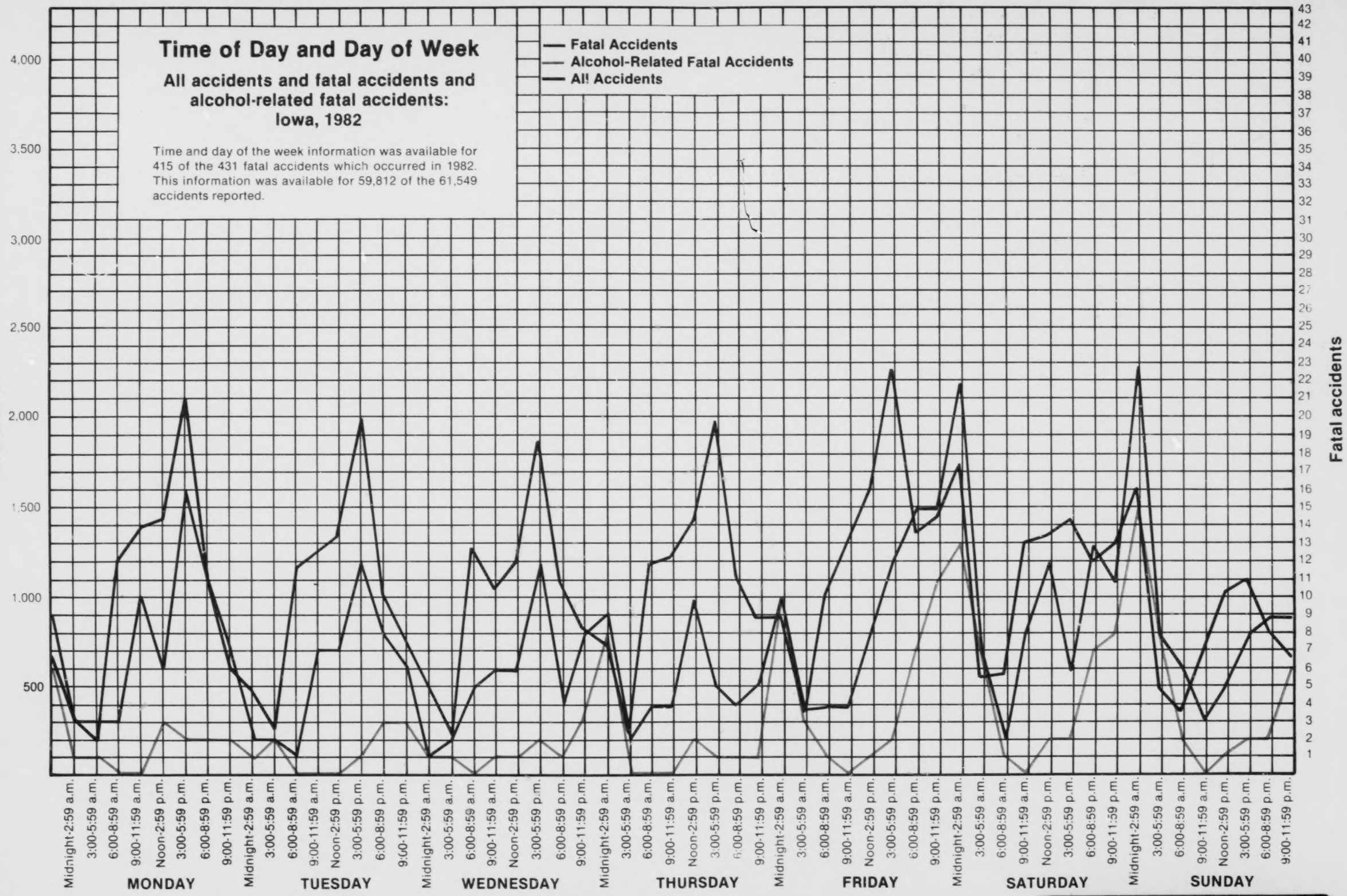
*** Of persons killed, 9 were age 4 or under, 9 were age 5-9, and 20 were age 10-14.

† Accident rates can be converted to percentage figures by moving the decimal two spaces to the left. For example -- for age 17 the accident rate is 1,331.9 per 10,000 licensed drivers. As a percentage (per 100 licensed drivers), the accident rate is 13.32. This means 13 percent of all 17-year-olds licensed in Iowa were involved in accidents during 1982.

Time of Day and Day of Week

All accidents and fatal accidents and alcohol-related fatal accidents: Iowa, 1982

Time and day of the week information was available for 415 of the 431 fatal accidents which occurred in 1982. This information was available for 59,812 of the 61,549 accidents reported.



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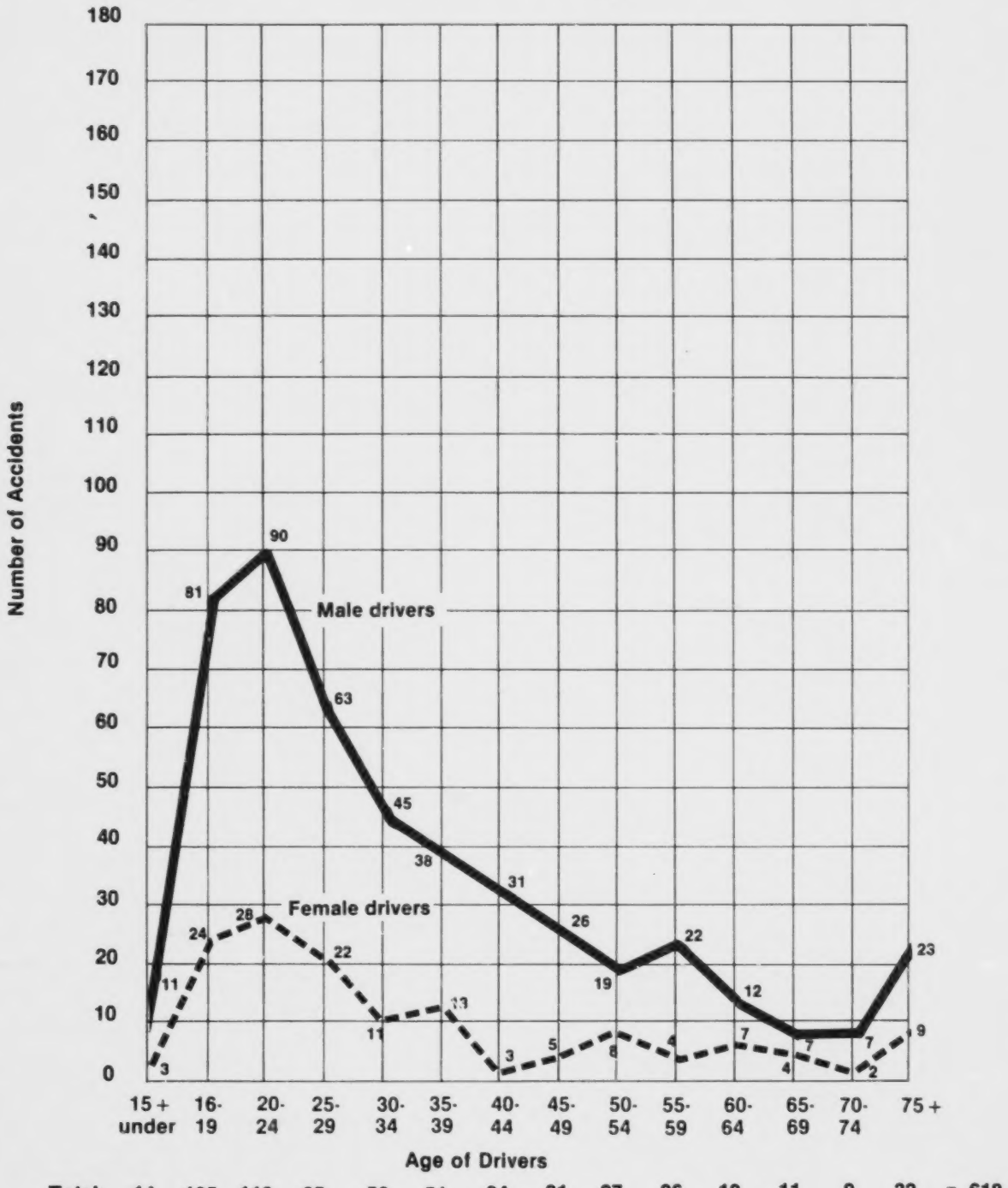
SUMMARY

Driver: Age/Sex

1982 Fatal Accidents

Drivers:		
Male	475	75.9%
Female	143	22.8%
Sex unknown	8	1.3%
Total	626	100.0%



Total: 14 105 118 85 56 51 34 31 27 26 19 11 9 32 = 618

SUMMARY
Drinking/Driving

During 1982, 37.6 percent of the fatal accidents and 39.2 percent of the fatalities were alcohol-related. Alcohol involvement is more apt to occur, and more likely to be reported, in fatal accidents than in non-fatal accidents.

In Iowa during 1982 drivers involved in fatal accidents were not required by law to submit to an alcohol test. Testing for alcohol in both fatal and all accidents was based on ""probable cause," as determined by the investigating officer. Care should be used in comparing the yearly percentages of alcohol-related fatal accidents due to fluctuations in the number of reports received.

Iowa alcohol-related accident figures should not be compared to states where an alcohol test is mandatory.

Age of Drinking Drivers Involved in Accidents

Driver Age	All Accidents		Fatal Accidents				Injury Accidents		Property Damage Accidents	
	No. of Drivers	%	No. of Drivers	%	Persons* Killed	%	No. of Drivers	%	No. of Drivers	%
15 & younger	17	0.3	2	1.2	2	1.1	9	0.4	6	0.2
16	116	2.3	4	2.4	4	2.1	62	2.6	50	2.0
17	232	4.5	15	9.1	19	10.1	108	4.5	109	4.3
18	298	5.8	7	4.2	9	4.8	138	5.7	153	6.0
19	437	8.5	14	8.5	14	7.4	213	8.8	210	8.3
20	409	8.0	10	6.1	11	5.9	191	7.9	208	8.2
21	359	7.0	5	3.0	5	2.7	185	7.7	169	6.7
22	327	6.4	7	4.2	13	6.9	163	6.7	157	6.2
23	245	4.8	15	9.1	18	9.6	116	4.8	114	4.5
24	228	4.5	9	5.5	9	4.8	124	5.1	95	3.7
25-34	1,443	28.2	39	23.6	44	23.4	686	28.4	718	28.3
35-44	502	9.8	19	11.5	21	11.2	221	9.1	262	10.3
45-54	245	4.8	9	5.5	10	5.3	100	4.1	136	5.4
55-64	142	2.8	8	4.8	8	4.3	57	2.4	77	3.0
65-74	74	1.4	0	--	0	--	27	1.1	47	1.8
75 & older	11	0.2	0	--	0	--	4	0.2	7	0.3
Not stated	38	0.7	2	1.2	4	2.1	13	0.5	23	0.9
Total no. of drivers	5,123		165				2,417		2,541	

* Figure includes all persons killed in accidents involving a drinking driver of the given age. NOTE: The figures do not add up to the total of 188 persons killed in alcohol-related accidents in 1982. For instance, a person killed in an accident involving both a 17 year-old drinking driver and a 21 year-old drinking driver would be included in both age categories. A person killed in an accident involving two 19 year-old drinking drivers, however, would be listed only once. (The percentage of persons killed by a given-age driver is based on the total of 188 persons killed in alcohol-related crashes.)

SUMMARY
Holiday Fatalities 1962-1982

Holiday Traffic Fatalities
Iowa, 1962-82

In 1982, for the holidays described in the table below, the average number of deaths per day was 1.9. The average number of deaths per day for weekends in 1982 was 1.7.

Note: Holiday periods include the number of full days shown in parentheses. Fatalities occurring from 6 p.m. to midnight on the previous day are also included. Regular weekend periods are from 6 p.m. Friday to midnight Sunday.

Beginning with 1981, the number of days included in a holiday periods have been standardized as follows:

- 1 day if holiday falls on Wednesday
- 3 days if holiday falls on Friday through Monday
- 4 days if holiday falls on Tuesday or Thursday

Year	New Year's Day	Memorial Day	Fourth of July	Labor Day	Thanksgiving Day	Christmas Day
1962	3 (4)	2 (2)	-- (1)	5 (3)	No Record	11 (4)
1963	4 (1)	6 (4)	18 (4)	8 (3)	No Record	7 (1)
1964	3 (3)	4 (3)	7 (3)	15 (3)	No Record	13 (3)
1965	7 (3)	6 (3)	9 (3)	11 (3)	No Record	13 (3)
1966	6 (3)	11 (3)	7 (3)	27 (3)	No Record	6 (3)
1967	4 (3)	7 (4)	13 (4)	9 (3)	No Record	8 (3)
1968	1 (1)	11 (4)	16 (4)	18 (3)	10 (4)	5 (1)
1969	12 (4)	7 (3)	10 (3)	11 (3)	13 (4)	7 (4)
1970	8 (3)	8 (3)	10 (3)	13 (3)	12 (4)	7 (3)
1971	4 (3)	5 (3)	12 (3)	15 (3)	12 (4)	9 (3)
1972	5 (3)	9 (3)	3 (1)	6 (3)	14 (4)	12 (3)
1973	6 (4)	7 (3)	5 (1)	11 (3)	14 (4)	9 (4)
1974	6 (1)	4 (3)	8 (4)	16 (3)	13 (4)	4 (1)
1975	5 (4)	6 (3)	7 (3)	8 (3)	3 (4)	5 (4)
1976	9 (3)	6 (3)	16 (3)	10 (3)	9 (4)	5 (3)
1977	1 (3)	11 (3)	16 (3)	6 (3)	7 (4)	5 (3)
1978[1,2]	1/0 (3)	13/6 (3)	8/5 (4)	5/1 (3)	12/5 (4)	3/2 (4)
1979	3/3 (3)	9/5 (3)	8/4 (1)	11/8 (3)	10/6 (4)	11/6 (4)
1980	13/7 (4)	5/2 (3)	9/7 (3)	11/6 (3)	13/9 (4)	1/1 (4)
1981	8/4 (4)	8/3 (3)	6/2 (3)	7/4 (3)	7/2 (4)	6/1 (3)
1982	4/3 (3)	3/2 (3)	5/3 (3)	9/6 (3)	8/3 (4)	10/2 (3)

1 Beginning with 1978, the number of alchol-related traffic fatalities for a given holiday is included, in addition to the total number of holiday fatalities. The number of all fatalities is on the left of the slash mark; the number of alcohol-related fatalities is on the right. As for previous years, the number of days included in the holiday is in parentheses.

2 In some cases, holiday fatality figures for 1978 through 1982 have been revised.

Iowa Accidents Involving

Fatalities

In 1982 there were:
480 persons killed in 431 fatal accidents

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	32	5.0
Improper passing	10	1.6
Left of center, not passing	51	8.0
Failure to yield	45	7.1
Wrong way, one-way road	1	0.2
Speed too fast	67	10.6
Drag racing	2	0.3
Improper turn	2	0.3
Improper lane change	2	0.3
Following too close	2	0.3
Improper or no signal	0	--
Disregarded R.R. signal	2	0.3
Disregarded warning signal	4	0.6
Reckless driving	7	1.1
Improper backing	3	0.5
Illegal or improper parking	6	0.9
Failure to have control	140	22.0
Lights not on	3	0.5
Inattentive/distracted	21	3.3
Confused/inexperienced	13	2.0
Vision obscured	41	6.5
Oversized vehicle	1	0.2
Other	30	4.7

Note From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	337	65.2
Drinking - impaired	111	21.5
Drinking - not impaired	54	10.5
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	6	1.2
Ill	3	0.6
Under medication	0	--
Infirmities of age	3	0.6
Other	3	0.6
Total no. of drivers (condition stated)	517	
Condition not stated	109	
GRAND TOTAL	626	

Driver Sex	Number of Drivers	Percent
Male	475	76.9
Female	143	23.1
Total no. of drivers (sex known)	618	
Sex not stated	8	
GRAND TOTAL	626	

Driver Age	Number of Drivers	Percent
15 & younger	14	2.3
16	20	3.2
17	33	5.3
18	27	4.4
19	25	4.0
20	25	4.0
21	16	2.6
22	29	4.7
23	30	4.9
24	18	2.9
25-34	141	22.8
35-44	85	13.8
45-54	58	9.4
55-64	45	7.3
65-74	20	3.2
75 & older	32	5.2
Total no. of drivers (age known)	618	
Age not stated	8	
GRAND TOTAL	626	

Note In 1982 fatal accidents, 73.0 percent of the vehicle occupants who were killed or injured were not wearing seat belts, 3.4 percent were wearing seat belts, and seat belt use was unknown or unreported for 23.6 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	498	78.4
Turning left	36	5.7
Turning right	9	1.4
Backing	6	0.9
Stopped in traffic	17	2.7
Parked	11	1.7
Making U-turn	--	9.1
Passing	11	
Changing lanes	2	
Merging	2	
Parking	1	
Slowing-stopping	5	
Unattended moving vehicle	2	
Other	35	
Total no. of vehicles (action stated)	635	
Action not stated	4	
GRAND TOTAL	639	

Note Total number of vehicles includes parked vehicles involved in accidents.

Vehicle Defect	Number of Vehicles	Percent
None	359	93.5
Brakes	5	
Lights	3	
Steering	1	
Wipers	0	6.5
Tires	9	
Trailer hitch	0	
Other	7	
Total no. of vehicles (defect stated)	384	
No defect stated	255	
GRAND TOTAL	639	

The Environment

Light	Number of Accidents	Percent
Dawn	7	1.6
Daylight	202	47.5
Dusk	13	3.1
Darkness (road lighted)	54	12.7
Darkness (road unlighted)	149	35.1
Total no. of accidents (light stated)	425	
Light not stated	6	
GRAND TOTAL	431	

Note: Figures indicate number of accidents involving fatalities occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	244	56.6
Cloudy	137	31.8
Fog	22	5.1
Mist	23	5.3
Rain	23	5.3
Sleet/hail	4	0.9
Snow	11	2.6
Strong wind	8	1.9
Other	2	0.5

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	10	4.6
Underpass/bridge support	0	--
Building	0	--
Culvert	11	5.1
Curb	7	3.2
Ditch	91	42.1
Island/raised median	2	0.9
Embankment/retaining wall	17	7.9
Fence	13	6.0
Guardrail	5	2.3
Light pole	1	0.5
Sign post	13	6.0
Tree or shrubbery	17	7.9
Utility pole	9	4.2
Other pole or support	5	2.3
Mailbox	2	0.9
Impact attenuator	1	0.5
Other	12	5.6

33.8% of vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	288	66.8
Traffic signals	18	4.2
Stop sign	54	12.5
Yield sign	1	
No passing zone (marked)	22	
R.R. warning sign	3	16.5
R.R. automatic signal	4	
R.R. crossing gate	0	
Other	41	
Total no. of accidents (control stated)	431	
Control not stated	0	
GRAND TOTAL	431	

Iowa Accidents Involving

Alcohol

In 1982 there were:

188 persons killed in alcohol-related accidents, or 39.2 percent of all traffic fatalities

3,747 persons injured in alcohol-related accidents

5,002 accidents involving alcohol and motor vehicles

162 fatal accidents involving alcohol and motor vehicles, or 37.6 percent of all fatal accidents

2,392 personal injury accidents involving alcohol and motor vehicles

2,448 property damage accidents involving alcohol and motor vehicles

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers/ Operators	Percent
Drinking driver/operator actions:		
Ran traffic control	219	4.3
Improper passing	69	1.3
Left of center, not passing	286	5.6
Failure to yield	275	5.4
Wrong way, one-way road	19	0.4
Speed too fast	753	14.7
Drag racing	10	0.2
Improper turn	73	1.4
Improper lane change	45	0.9
Following too close	96	1.9
Improper or no signal	9	0.2
Disregarded R.R. signal	7	0.1
Disregarded warning signal	11	0.2
Reckless driving	259	5.1
Improper backing	73	1.4
Illegal or improper parking	31	0.6
Failure to have control	2,366	46.2
Lights not on	24	0.5
Inattentive/distracted	316	6.2
Confused/inexperienced	129	2.5
Vision Obscured	176	3.4
Oversized vehicle	1	--
Other	538	10.5
Drinking pedestrian actions:	**Pedestrians**	**Percent**
Crossing against signal	3	4.6
Crossing, not at crosswalk	21	32.3
Walking, Improper position on roadway	12	18.5
Walking with traffic	1	1.5
Walking against traffic	0	--
Crossing with signal or in crosswalk	5	7.7
Ran onto roadway or into road from between parked cars	9	13.8
Pushing, working on vehicle	4	6.2
Lying or sitting on roadway	4	6.2
Getting on or off vehicle	2	3.1
Walking, off roadway	2	3.1
Unknown/other	2	3.1
TOTAL	65	

Note: From 0-2 action/circumstances are listed for each drinking driver, operator or pedestrian involved in an accident.

Condition	Number of Drivers/ Operators	(%)	Number of Pedestrians	(%)
Apparently normal	0	--	0	--
Drinking - Impaired	2,801	54.7	44	67.7
Drinking - Impaired	2,309	45.1	21	32.3
Drugs	1	--	0	--
Physical defect	0	--	0	--
Fatigued	1	--	0	--
Apparently asleep	4	0.1	0	--
Ill	0	--	0	--
Under medication	1	--	0	--
Infirmities of age	1	--	0	--
Other	1	--	0	--
Total no. of drivers (condition stated)	5,119		65	
Condition not stated	4		0	
GRAND TOTAL	5,123		65	

Note: Some of the drinking drivers were not listed as 'condition - drinking' but did have a blood alcohol content greater than 0. This may occur because the report form provides space to list only one condition, although more than one condition may have been applicable to the driver at the time. If the driver fell asleep at the wheel and possessed a BAC above 0, for instance, the officer may have listed the condition as 'apparently asleep.'

Sex	Number of Drivers/ Operators	(%)	Number of Pedestrians	(%)
Male	4,371	85.9	45	69.2
Female	717	14.1	20	30.8
Total no. of drivers (sex known)	5,088		65	
Sex not stated	35		0	
GRAND TOTAL	5,123		65	

Age	Number of Drivers/ Operators	(%)	Number of Pedestrians	(%)
15 & younger	17	0.3	2	3.1
16	116	2.3	1	1.6
17	232	4.6	5	7.8
18	298	5.9	2	3.1
19	437	8.6	5	7.8
20	409	8.0	6	9.4
21	359	7.1	1	1.6
22	327	6.4	2	3.1
23	245	4.8	4	6.3
24	228	4.5	2	3.1
25-34	1,443	28.4	17	26.6
35-44	502	9.9	6	9.4
45-54	245	4.8	4	6.3
55-64	142	2.8	2	3.1
65-74	74	1.5	2	3.1
75 & older	11	0.2	3	4.7
Total no. of drivers (age known)	5,085		64	
Age not stated	38		1	
GRAND TOTAL	5,123		65	

Note: In 1982 alcohol-related accidents, 80.6 percent of the motor vehicle occupants who were killed or injured were not wearing seat belts, 2.5 percent were wearing seat belts, and seat belt use was unknown or unreported for 17.0 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	3,811	75.0
Turning left	468	9.2
Turning right	256	5.0
Backing	91	1.8
Stopped in traffic	35	0.7
Parked	7	0.1
Making U-turn	21	0.4
Passing	92	1.8
Changing lanes	59	1.2
Merging	20	0.4
Parking	5	0.1
Slowing-stopping	38	0.7
Unattended moving vehicle	0	--
Other	180	3.5
Total no. of vehicles (action stated)	5,083	
Action not stated	40	
GRAND TOTAL	5,123	

Note: Total number of vehicles includes vehicles parked with drinking drivers present.

Vehicle Defect	Number of Vehicles	Percent
None	3,629	95.0
Brakes	53	1.4
Lights	15	0.4
Steering	17	0.4
Wipers	6	0.2
Tires	74	1.9
Trailer hitch	2	0.1
Other	26	0.7
Total no. of vehicles (defect stated)	3,822	
Defect not stated	1,301	
GRAND TOTAL	5,123	

The Environment

Light	Number of Accidents	Percent
Dawn	32	0.6
Daylight	858	17.2
Dusk	147	2.9
Darkness road lighted)	2,415	48.3
Darkness (road unlighted)	1,548	31.0
Total no. of accidents (light stated)	5,000	
Light not stated	2	
GRAND TOTAL	5,002	

Note: Figures indicate number of accidents involving alcohol occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	2,843	56.8
Cloudy	1,609	32.2
Fog	122	2.4
Mist	221	4.4
Rain	316	6.3
Sleet/hail	18	0.4
Snow	130	2.6
Strong wind	105	2.1
Other	18	0.4

Note: Some accident reports listed more than one type of weather condition. The percentages listed for each weather condition is based on the total number of accidents.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	87	3.9
Underpass/bridge support	10	0.4
Building	98	4.4
Culvert	48	2.1
Curb	89	4.0
Ditch	551	24.6
Island/raised median	29	1.3
Embankment/retaining wall	74	3.3
Fence	149	6.6
Guardrail	61	2.7
Light pole	210	9.4
Sign post	124	5.5
Tree or shrubbery	155	6.9
Utility pole	270	12.0
Other pole or support	59	2.6
Mailbox	46	2.1
Impact attenuator	6	0.3
Other	177	7.9

43.8% of drinking drivers involved in accidents struck fixed objects.

Note: Impact attenuators are crash cushioning devices.

Traffic Controls	Number of Accidents	Percents
No controls	3,644	73.6
Traffic signals	478	9.7
Stop sign	396	8.0
Yield sign	23	8.7
No passing zone (marked)	66	
R.R. warning sign	14	
R.R. automatic signal	12	
R.R. crossing gate	7	
Other	308	
Total no. of accidents (control stated)	4,948	
Control not stated	4	
GRAND TOTAL	4,952	

Note: The 4,952 figure does not include 50 accidents in which only the pedestrian was drinking.

SUMMARY
Pedestrians

Alcohol-Related Pedestrian Accidents:

	Fatal Acc.		Injury Acc.	
	No.	%	No.	%
Pedestrian (only) drinking	2	5.3	48	6.5
Driver (only) drinking	3	7.9	30	4.0
Pedestrian and driver drinking	2	5.3	11	1.5
No alcohol involvement	28	73.7	648	87.3
Unknown	3	7.9	5	0.7
Total	38		742	

Fatalities:

Age	Killed	%	Injured	%
0-4	3	7.7	63	8.2
5-9	3	7.7	173	22.5
10-14	4	10.3	98	12.7
15-19	4	10.3	91	11.8
20-24	6	15.4	65	8.5
25-44	6	15.4	106	13.8
45-64	3	7.7	74	9.6
65+	10	25.6	64	8.3
Not stated	0	--	35	4.6
Total	39		769	

Of all pedestrian fatalities, 41.0% were persons under 10 or over 64 years of age.

All Pedestrian Accidents:

Pedestrian Action	Killed	Injured
Crossing against signal	0	32
Crossing, not at crosswalk	6	140
Walking, improper position on roadway	6	33
Soliciting rides on road	0	0
Walking with traffic	5	27
Walking against traffic	0	9
Crossing with signal or in crosswalk	4	110
Ran onto roadway or into road from between parked cars	8	214
Directing traffic	0	7
Playing	2	15
Lying or sitting on roadway	3	5
Pushing, working on vehicle	0	26
Getting on or off vehicle	2	18
Maintenance/construction project	1	4
Walking, off roadway	2	16
Unknown	0	113
Total	39	769

Driver Action/ Contributing Circum.*	Fatal Acc.	Injury Acc.
Ran traffic control	0	8
Improper passing	0	2
Left of center, not passing	0	3
Failure to yield	3	75
Speeding	0	14
Improper turn	0	0
Improper lane change	0	1
Following too close	0	0
Disregarded warning signal	0	2
Reckless driving	0	5
Improper backing	0	15
Failure to control	2	29
Headlights not on	0	1
Driver drinking	0	0
Inattentive/distracted	1	20
Confused/inexperienced	0	14
Vision obscured	10	96
Vehicle defect	0	0
Vehicle overloaded/oversized	0	1
Other	4	48

*0-2 actions/circumstances were listed for each driver.

Fatalities by County
1978-1982

Numbers represent fatalities, in order, for each year from 1978 through 1982.

SUMMARY
Counties

County	Registrations*	Licensed** Drivers	All Acc.	Acc. Rate***	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Adair	9,842	6,179	204	207	1	1	63	80
Adams	6,051	3,910	98	162	0	0	24	46
Allamakee	13,295	9,713	262	197	4	5	69	96
Appanoose	13,773	10,067	304	221	0	0	94	145
Audubon	8,602	5,762	146	170	1	1	48	62
Benton	22,309	15,057	366	164	7	10	124	203
Black Hawk	117,944	91,198	3,035	257	16	16	931	1,298
Boone	25,284	16,951	468	185	7	10	168	224
Bremer	22,524	16,143	393	174	2	2	125	179
Buchanan	19,777	13,907	331	167	5	5	102	148
Buena Vista	20,347	14,312	442	217	7	9	139	215
Butler	17,278	11,473	264	153	1	2	78	133
Calhoun	13,307	8,905	216	162	2	2	74	112
Carroll	21,362	15,288	516	242	4	4	137	212
Cass	17,254	11,771	350	203	3	3	100	144
Cedar	18,198	11,518	342	188	5	5	106	160
Cerro Gordo	43,854	34,298	1,407	321	8	9	383	564
Cherokee	16,088	11,133	295	183	4	4	79	107
Chickasaw	14,283	10,152	219	153	1	1	67	101
Clarke	8,170	5,767	177	217	5	6	58	91
Clay	18,222	13,790	468	257	2	2	142	196
Clayton	19,235	13,335	386	201	5	7	98	144
Clinton	47,267	38,623	1,300	275	12	12	289	422
Crawford	18,101	12,432	465	257	2	2	128	184
Dallas	28,808	19,842	498	173	5	5	171	236
Davis	8,078	5,573	142	176	1	2	45	61
Decatur	8,439	6,091	155	184	2	7	47	72
Delaware	16,915	11,957	313	185	4	4	97	144
Des Moines	41,136	31,574	830	202	7	7	255	363
Dickinson	15,132	11,157	405	268	3	6	118	172
Dubuque	67,433	60,070	2,046	303	9	9	612	867
Emmet	12,967	9,348	273	211	0	0	83	113
Fayette	22,263	16,723	392	176	3	3	119	198
Floyd	18,288	12,966	413	226	6	6	102	147
Franklin	13,234	8,597	287	217	1	1	83	122
Fremont	9,440	6,279	180	191	1	2	48	68

* County and total motor vehicle registration figures exclude trailers, travel trailers and mobile homes. Vehicles registered to non-Iowa residents are included.

** Excludes out-of-state drivers.

*** Per 10,000 registered vehicles.

County	Registrations*	Licensed** Drivers	All Acc.	Acc. Rate***	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Greene	13,037	8,373	222	170	1	1	68	97
Grundy	14,339	9,207	220	153	3	3	69	118
Guthrie	12,134	7,899	181	149	2	2	61	96
Hamilton	18,061	12,058	449	249	4	5	138	189
Hancock	13,188	9,038	205	155	1	1	79	115
Hardin	21,218	14,837	378	178	2	2	120	164
Harrison	15,695	10,915	394	251	3	4	105	142
Henry	15,774	12,429	294	186	4	6	96	137
Howard	10,579	7,373	179	169	1	1	46	72
Humboldt	12,629	8,683	235	186	2	2	80	129
Ida	9,246	6,031	162	175	2	3	43	64
Iowa	15,591	10,035	329	211	4	4	85	150
Jackson	19,118	13,574	289	151	6	7	96	150
Jasper	34,704	23,580	636	183	3	3	186	272
Jefferson	14,542	10,709	263	181	2	2	72	111
Johnson	59,764	58,709	1,737	291	13	14	506	698
Jones	18,611	12,440	349	188	3	3	104	165
Keokuk	12,904	8,436	153	119	2	2	41	58
Kossuth	22,011	14,795	322	146	4	4	93	146
Lee	37,674	29,271	842	223	8	9	233	328
Linn	143,853	119,721	3,078	214	14	16	906	1,266
Louisa	11,606	7,154	202	174	0	0	68	95
Lucas	9,961	6,790	169	170	1	2	41	58
Lyon	12,211	8,788	204	167	4	4	47	73
Madison	12,649	8,115	171	135	2	2	59	88
Mahaska	21,219	14,997	410	193	2	3	115	180
Marion	26,486	18,832	534	202	2	2	170	272
Marshall	39,045	29,301	911	233	8	8	286	430
Mills	11,685	8,372	289	247	3	3	71	94
Mitchell	11,713	8,334	197	168	3	3	43	61
Monona	11,879	7,907	197	166	2	2	70	99
Monroe	8,674	5,528	167	193	1	1	61	88
Montgomery	12,814	9,203	287	224	3	3	75	112
Muscatine	37,384	27,791	872	233	6	8	279	382
O'Brien	16,375	11,513	268	164	2	2	63	81
Osceola	8,204	5,594	128	156	0	0	20	42

* County and total motor vehicle registration figures exclude trailers, travel trailers and mobile homes. Vehicles registered to non-Iowa residents are included.

** Excludes out-of-state drivers.

*** Per 10,000 registered vehicles.

County	Registrations*	Licensed** Drivers	All Acc.	Acc. Rate***	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Page	16,917	12,741	317	187	2	2	92	154
Palo Alto	11,962	8,521	227	190	1	1	72	98
Plymouth	22,321	15,849	507	227	7	7	137	183
Pocahontas	11,493	7,760	127	111	3	3	41	65
Polk	259,385	218,827	9,534	368	23	24	2,716	3,928
Pottawattamie	73,231	60,515	2,305	315	16	21	687	998
Poweshiek	18,237	13,243	381	209	8	8	110	165
Ringgold	6,386	4,092	112	175	2	2	26	37
Sac	13,962	9,530	250	179	3	3	65	107
Scott	131,211	117,555	3,694	282	15	17	1,125	1,583
Shelby	14,745	10,152	221	150	4	4	58	95
Sioux	26,646	19,345	437	164	5	5	118	171
Story	51,950	48,188	1,311	252	6	7	339	495
Tama	19,159	12,519	302	158	4	4	78	108
Taylor	8,118	5,654	129	159	1	1	22	34
Union	13,189	9,355	347	263	5	5	82	134
Van Buren	8,274	5,362	86	104	3	3	34	50
Wapello	35,061	26,641	710	203	9	9	249	345
Warren	31,454	22,773	577	183	7	7	194	268
Washington	19,390	13,209	343	177	4	4	97	135
Wayne	8,015	5,335	115	143	2	2	34	46
Webster	40,639	30,659	1,406	346	7	8	384	538
Winnebago	12,730	9,357	137	108	0	0	31	46
Winneshiek	18,483	13,423	486	263	5	5	129	189
Woodbury	79,331	71,728	2,771	349	16	17	799	1,130
Worth	8,839	5,991	138	156	1	1	37	48
Wright	15,789	11,394	268	170	3	3	76	104
Total	**2,577,994**	**1,977,911**	**61,549**	**239**	**431**	**480**	**17,933**	**25,905**

* County and total motor vehicle registration figures exclude trailers, travel trailers and mobile homes. Vehicles registered to non-Iowa residents are included.

** Excludes out-of-state drivers

*** Per 10,000 registered vehicles.

SUMMARY

Counties: Acc. by Road System

	Interstate/ Freeway			U.S. or State Highway			County Road			City Street			Other/Unknown		
	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.
Adair	0	19	41	1	14	25	0	22	38	0	8	36	0	0	0
Adams	0	0	0	0	10	22	0	7	24	0	7	26	0	0	2
Allamakee	0	0	0	2	29	77	2	34	72	0	6	40	0	0	0
Appanoose	0	0	0	0	33	70	0	29	49	0	32	86	0	0	5
Audubon	0	0	0	0	11	34	1	26	36	0	10	27	0	1	0
Benton	0	0	0	4	49	92	3	59	55	0	16	87	0	0	1
Black Hawk	0	0	0	8	376	801	3	71	73	5	477	1,188	0	7	26
Boone	0	0	0	3	26	50	4	53	71	0	82	166	0	7	6
Bremer	0	0	0	0	67	123	1	31	48	1	27	95	0	0	0
Buchanan	0	0	0	2	42	96	2	37	55	1	23	70	0	0	3
Buena Vista	0	0	0	3	52	119	4	40	39	0	45	137	0	2	1
Butler	0	0	0	1	40	71	0	28	41	0	10	71	0	0	2
Calhoun	0	0	0	2	33	37	0	30	36	0	10	67	0	1	0
Carroll	0	0	0	0	49	132	4	40	65	0	47	173	0	1	5
Cass	0	12	40	3	40	95	0	18	37	0	29	71	0	1	4
Cedar	1	29	63	2	24	47	2	41	64	0	12	56	0	0	1
Cerro Gordo	1	18	35	3	161	420	4	50	59	0	148	489	0	6	13
Cherokee	0	0	0	3	35	94	1	28	41	0	15	74	0	1	3
Chickasaw	0	0	0	0	35	75	1	24	36	0	8	39	0	0	1
Clarke	2	7	17	1	24	54	2	19	15	0	7	24	0	1	4
Clay	0	0	0	0	52	141	1	33	44	1	55	136	0	2	3
Clayton	0	0	0	2	33	105	3	56	110	0	8	65	0	1	3
Clinton	0	0	0	9	111	370	2	53	113	1	122	503	0	3	13
Crawford	0	0	0	0	67	156	2	35	58	0	25	118	0	1	3
Dallas	1	23	45	3	56	104	1	50	62	0	41	108	0	1	3
Davis	0	0	0	0	24	40	1	14	37	0	7	18	0	0	1
Decatur	0	5	15	0	14	38	2	17	33	0	11	19	0	0	1
Delaware	0	0	0	2	27	67	2	49	79	0	19	62	0	2	4
Des Moines	0	0	0	3	70	159	2	29	48	2	154	355	0	2	6
Dickinson	0	0	0	2	58	142	1	37	57	0	23	77	0	0	8
Dubuque	0	0	0	6	227	496	1	73	109	2	309	806	0	3	14
Emmet	0	0	0	0	35	79	0	22	26	0	25	85	0	1	0
Fayette	0	0	0	0	42	116	3	42	65	0	32	86	0	3	3
Floyd	0	0	0	0	34	101	4	31	39	2	37	164	0	0	1
Franklin	0	20	36	1	29	84	0	23	27	0	11	54	0	0	2
Fremont	0	6	20	0	13	50	1	22	41	0	7	19	0	0	1
Greene	0	0	0	0	29	43	0	22	43	1	16	65	0	1	2
Grundy	0	0	0	1	22	41	2	41	45	0	6	62	0	0	0
Guthrie	0	0	0	1	30	39	1	23	49	0	6	27	0	2	3
Hamilton	1	23	45	2	20	64	0	30	52	1	59	141	0	6	5
Hancock	0	0	0	1	39	53	0	22	28	0	18	41	0	0	3
Hardin	0	0	0	2	41	109	0	45	43	0	34	102	0	0	2
Harrison	0	19	31	2	36	129	1	34	54	0	15	69	0	1	3
Henry	0	0	0	2	33	82	2	37	48	0	25	63	0	1	1
Howard	0	0	0	0	13	33	1	24	48	0	9	51	0	0	0

SUMMARY

Counties: Acc. by Road System

	Interstate/ Freeway			U.S. or State Highway			County Road			City Street			Other/Unknown		
	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.
Humboldt	0	0	0	2	27	55	0	28	25	0	22	73	0	3	0
Ida	0	0	0	1	16	42	1	9	31	0	17	44	0	1	0
Iowa	1	18	49	1	20	64	2	38	62	0	9	64	0	0	1
Jackson	0	0	0	2	45	87	3	27	37	1	23	63	0	1	0
Jasper	1	22	75	1	64	100	0	44	63	1	55	203	0	1	6
Jefferson	0	0	0	0	27	74	2	24	37	0	20	75	0	1	3
Johnson	0	40	98	7	183	389	5	85	112	1	192	604	0	6	15
Jones	0	0	0	3	38	82	0	45	71	0	21	80	0	0	9
Keokuk	0	0	0	1	17	59	1	14	35	0	10	14	0	0	2
Kossuth	0	0	0	1	32	87	3	44	39	0	17	99	0	0	0
Lee	0	0	0	3	129	277	3	49	71	2	55	237	0	0	16
Linn	2	23	56	5	280	628	3	114	100	4	485	1,356	0	4	18
Louisa	0	0	0	0	25	51	0	31	46	0	12	35	0	0	2
Lucas	0	0	0	0	17	49	1	11	23	0	12	54	0	1	1
Lyon	0	0	0	2	16	50	2	17	48	0	14	54	0	0	1
Madison	0	0	4	1	11	12	1	32	44	0	16	49	0	0	1
Mahaska	0	0	0	1	70	140	1	26	51	0	18	99	0	1	3
Marion	0	0	0	1	79	122	1	45	67	0	43	166	0	3	7
Marshall	0	0	0	3	123	216	2	58	72	3	102	321	0	3	8
Mills	0	5	22	1	27	85	2	27	57	0	12	49	0	0	2
Mitchell	0	0	0	1	19	48	2	11	48	0	12	55	0	1	0
Monona	0	9	16	1	23	33	0	29	30	1	9	46	0	0	0
Monroe	0	0	0	1	28	44	0	24	20	0	9	38	0	0	3
Montgomery	0	0	0	1	29	73	2	23	32	0	22	99	0	1	5
Muscatine	0	0	0	3	138	282	3	33	46	0	103	253	0	5	6
O'Brien	0	0	0	2	20	70	0	23	30	0	19	102	0	1	1
Osceola	0	0	0	0	7	35	0	7	37	0	6	36	0	0	0
Page	0	0	0	2	34	78	0	23	39	0	35	104	0	0	2
Palo Alto	0	0	0	1	29	59	0	29	27	0	12	66	0	2	2
Plymouth	0	0	0	2	52	125	4	56	76	0	27	159	1	2	3
Pocahontas	0	0	0	1	16	22	1	13	23	1	12	37	0	0	1
Polk	2	291	596	12	774	1,646	2	125	165	7	1,512	4,321	0	14	67
Pottawattamie	7	108	242	3	205	389	1	68	87	5	301	872	0	5	12
Poweshiek	0	34	51	4	41	100	4	19	29	0	16	75	0	0	8
Ringgold	0	0	0	2	10	26	0	12	30	0	4	26	0	0	0
Sac	0	0	0	2	18	64	1	29	47	0	18	65	0	0	6
Scott	2	59	199	8	385	816	2	54	65	2	616	1,450	1	11	24
Shelby	0	0	0	0	28	57	4	14	31	0	16	71	0	0	0
Sioux	0	0	0	3	53	106	1	35	52	1	30	154	0	0	2
Story	0	24	55	3	79	227	3	55	80	0	181	599	0	0	5
Tama	0	0	0	1	34	82	3	26	71	0	18	67	0	0	0
Taylor	0	0	0	1	9	33	0	8	39	0	5	33	0	0	1
Union	0	0	0	3	25	72	1	25	42	1	31	140	0	1	6
Van Buren	0	0	0	2	8	19	1	23	17	0	2	12	0	1	1
Wapello	0	0	0	5	91	165	2	31	51	2	123	229	0	4	7

SUMMARY

Counties: Acc. by Road System

	Interstate/ Freeway			U.S. or State Highway			County Road			City Street			Other/Unknown		
	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.
Warren	1	20	35	6	87	157	0	56	84	0	28	95	0	3	5
Washington	0	0	0	3	51	127	1	24	41	0	21	73	0	1	1
Wayne	0	0	0	0	16	40	2	8	15	0	10	24	0	0	0
Webster	0	0	0	3	149	333	4	65	106	0	168	567	0	2	9
Winnebago	0	0	0	0	9	32	0	17	23	0	5	50	0	0	1
Winneshiek	0	0	0	3	46	100	2	53	123	0	30	127	0	0	2
Woodbury	1	70	127	3	135	310	4	68	82	8	523	1,413	0	3	24
Worth	0	7	25	0	16	33	1	12	20	0	2	21	0	0	1
Wright	1	4	3	2	22	61	0	34	37	0	14	87	0	2	1
Total	**24**	**915**	**2,041**	**197**	**6,237**	**13,910**	**151**	**3,451**	**5,148**	**57**	**7,188**	**21,623**	**2**	**142**	**463**

City	Population*	Number of Accidents 1981	Number of Accidents 1982	Persons Killed 1981	Persons Killed 1982	Persons Injured 1981	Persons Injured 1982	Acc. Rate** 1981	Acc. Rate** 1982
1. Des Moines	191,003	7,591	7,072	27	9	2,816	2,738	397.4	370.3
2. Cedar Rapids	110,243	2,788	2,231	9	7	948	811	252.9	202.4
3. Davenport	103,264	3,197	2,657	14	10	1,368	1,127	309.6	257.3
4. Sioux City	82,003	2,818	2,441	9	11	1,048	945	343.6	297.7
5. Waterloo	75,985	2,024	1,817	10	9	818	749	266.4	239.1
6. Dubuque	62,321	1,778	1,526	3	4	612	605	285.3	244.9
7. Council Bluffs	56,449	1,925	1,721	12	7	714	673	341.0	304.9
8. Iowa City	50,508	1,031	978	2	2	370	320	204.1	193.6
9. Ames	45,775	945	845	0	1	305	240	206.4	184.6
10. Cedar Falls	36,322	781	804	2	2	278	334	215.0	221.4
11. Clinton	32,828	1,060	884	4	6	282	247	322.9	269.3
12. Mason City	30,144	1,017	934	3	3	360	308	337.4	309.8
13. Burlington	29,529	664	567	3	2	226	229	224.9	192.0
14. Fort Dodge	29,423	1,135	1,046	5	2	455	387	385.8	355.5
15. Bettendorf	27,381	563	527	0	1	213	191	205.6	192.5
16. Ottumwa	27,381	570	493	6	4	256	248	208.2	180.1
17. Marshalltown	26,938	694	625	1	3	285	232	257.6	232.0
18. Muscatine	23,467	703	596	2	1	249	241	299.6	254.0
19. West Des Moines	21,894	450	417	2	2	187	154	205.5	190.5
20. Marion	19,474	295	314	0	1	132	138	151.5	161.2
21. Urbandale	17,689	305	334	0	0	145	153	170.7	186.9
22. Ankeny	15,429	281	273	0	0	133	124	182.1	176.9
23. Newton	15,292	345	290	0	1	105	103	225.6	189.6
24. Keokuk	13,536	306	244	2	4	86	90	226.1	180.3
25. Fort Madison	13,520	383	295	2	0	86	82	283.3	218.2
26. Boone	12,602	262	226	2	0	104	98	207.9	179.3
27. Spencer	11,726	362	322	0	1	133	128	308.7	274.6
28. Oakaloosa	10,989	253	218	0	0	96	76	230.2	198.4
29. Indianola	10,843	190	165	0	1	52	56	175.2	152.2
30. Carroll	9,705	306	263	0	0	102	91	315.3	271.0
31. Fairfield	9,428	237	173	1	0	77	50	251.4	183.5
32. Grinnell	8,868	133	127	0	2	57	36	150.0	143.2
33. Storm Lake	8,814	236	240	1	0	79	75	267.8	272.3
34. Charles City	8,778	205	230	0	2	76	62	233.5	262.0

* List includes all Iowa cities with a population of 5,000 or more, based on 1980 census figures (including revisions made through January 1983). Figures provided by Office of the State Demographer, Office for Planning and Programming, Des Moines.

** Per 10,000 population

City	Population*	Number of Accidents 1981	Number of Accidents 1982	Persons Killed 1981	Persons Killed 1982	Persons Injured 1981	Persons Injured 1982	Acc. Rate** 1981	Acc. Rate** 1982
35. Webster City	8,572	187	212	1	1	74	79	218.2	247.3
36. Waverly	8,444	166	148	0	0	47	45	196.6	175.3
37. Creston	8,429	249	229	2	1	61	60	295.4	271.7
38. Pella	8,349	130	127	0	0	51	42	155.7	152.1
39. Le Mars	8,276	209	189	1	1	91	46	252.5	228.4
40. Knoxville	8,143	149	144	0	0	45	45	183.0	176.8
41. Decorah	8,068	202	152	0	0	51	39	250.4	188.4
42. Atlantic	7,789	199	150	1	3	88	57	255.5	192.6
43. Coralville	7,687	226	255	1	3	102	102	294.0	331.7
44. Oelwein	7,564	137	121	0	0	34	44	181.1	160.0
45. Estherville	7,518	177	172	2	0	74	56	235.4	228.8
46. Clear Lake	7,458	180	202	0	0	85	84	241.4	270.9
47. Mount Pleasant	7,322	158	111	1	0	66	44	215.8	151.6
48. Perry	7,053	141	127	0	0	65	52	199.9	180.1
49. Cherokee	7,004	192	141	1	0	73	39	274.1	201.3
50. Red Oak	6,810	192	152	2	0	57	47	281.9	223.2
51. Denison	6,675	219	203	1	0	68	58	328.1	304.1
52. Washington	6,584	151	107	0	0	59	37	229.3	162.5
53. Centerville	6,558	153	156	1	0	49	60	233.3	237.9
54. Independence	6,392	183	117	0	1	32	42	286.3	183.0
55. Maquoketa	6,313	125	104	1	0	47	46	198.0	164.7
56. Algona	6,289	178	135	1	0	63	31	283.0	214.7
57. Shenandoah	6,274	120	104	1	1	27	34	191.3	165.8
58. Iowa Falls	6,174	127	125	1	0	53	48	205.7	202.5
59. Clive	6,064	164	148	0	0	80	75	270.4	244.1
60. Nevada	5,912	65	81	0	0	26	24	109.9	137.0
61. Altoona	5,764	54	56	0	1	20	26	93.7	97.2
62. Windsor Heights	5,474	117	119	0	0	45	40	213.7	217.4
63. Clarinda	5,458	84	73	1	0	15	32	153.9	133.7
64. Harlan	5,357	125	90	1	0	31	18	233.3	168.0
65. Glenwood	5,280	89	68	1	0	31	16	168.6	128.8
66. Vinton	5,040	87	77	0	1	15	31	172.6	152.8
67. Sheldon	5,003	117	109	2	0	38	22	233.9	217.9
68. Chariton	5,116	106	77	0	0	33	16	207.2	150.5

* List includes all Iowa cities with a population of 5,000 or more, based on 1980 census figures (including revisions made through January 1983). Figures provided by Office of the State Demographer, Office for Planning and Programming, Des Moines.

** Per 10,000 population.

SUMMARY
Collision Accidents: Vehicle Type

Collision Accidents: Types of Vehicles Involved Iowa, 1982

In 1982, 80.1 percent of all Iowa accidents involved collisions between two or more vehicles. Three or more vehicles were involved in 6.7 percent of all accidents. The following table shows the number of accidents which involved a collision between a given combination of vehicles.(For instance: In 1982, 992 accidents involved a motorcycle/automobile collision.)

Example: If an accident involves two motorcycles and an automobile, it is counted once under motorcycle/automobile and once under motorcycle/motorcycle.

Vehicle Type	Automobile	Automobile/pickup with trailer or camper	Bus	School bus	Bicycle	Moped	Motorcycle	Farm vehicle	Motor home	Recreational vehicle	Train	Panel/van/pickup	Straight truck	Tow/maintenance/ construction vehicle	Truck tractor	Truck tractor with trailer	Other/unknown
Automobile	25,643	369	185	188	446	209	992	184	33	272	78	9,649	948	306	111	1,286	1,573
Automobile/pickup with trailer or camper	369	41	0	1	2	2	7	4	2	3	1	79	16	4	1	28	12
Bus	185	0	7	2	1	0	0	0	0	0	0	38	7	1	0	7	3
School bus	188	1	2	3	2	0	3	2	0	1	0	39	7	3	1	5	4
Bicycle	446	2	1	2	4	15	18	1	2	2	0	77	5	1	1	4	13
Moped	209	2	0	0	15	16	10	0	1	0	1	42	1	1	1	1	7
Motorcycle	992	7	0	3	18	10	65	7	1	3	1	199	20	2	3	11	23
Farm Vehicle	184	4	0	2	1	0	7	6	0	2	2	66	20	3	1	21	0
Motor Home	33	2	0	0	2	1	1	0	0	1	0	10	2	0	0	5	2
Recreational Vehicle	272	3	0	1	2	0	3	2	1	6	1	62	5	3	0	5	10
Train	78	1	0	0	0	1	1	2	0	1	0	28	6	2	0	13	0
Panel/van/pickup	9,649	79	38	39	77	42	199	66	10	62	28	1,327	237	95	23	234	262
Straight Truck	948	16	7	7	5	1	20	20	2	5	6	237	33	19	6	71	13
Tow/maintenance/ construction vehicle	306	4	1	3	1	1	2	3	0	3	2	95	19	2	3	21	5
Truck Tractor	111	1	0	1	1	1	3	1	0	0	0	23	6	3	2	3	5
Truck Tractor with Trailer	1,286	28	7	5	4	1	11	21	5	5	13	234	71	21	3	111	22
Other/unknown	1,573	12	3	4	13	7	23	0	2	10	0	262	13	5	5	22	9

Number of Accidents Involving Specific Vehicle Types: 1982

Vehicle Type	All Accidents		Fatal Accidents		
	No.	Percent	No.	Percent	Drivers: % with Iowa Licenses*
Automobile	52,630	85.5	281	65.2	91.6
Automobile/pickup with trailer or camper	748	1.2	6	1.4	N.A.
Bus	257	0.4	0	--	--
School bus	271	0.4	1	0.2	100.0
Bicycle	589	1.0	12	2.8	--
Moped	453	0.7	3	0.7	100.0
Motorcycle	2,152	3.5	65	15.1	88.2
Farm vehicle	368	0.6	10	2.3	100.0
Motor home	70	0.1	2	0.5	100.0
Recreational vehicle	474	0.8	9	2.1	78.6
Train	133	0.2	8	1.9	--
Panel/van/pickup	14,965	24.3	109	25.3	91.3
Straight truck	1,678	2.7	15	3.5	91.7
Tow/maintenance/construction vehicle	513	0.8	3	0.7	100.0
Truck tractor	201	0.3	5	1.2	100.0
Truck tractor with trailer**	2,587	4.2	50	11.6	53.6
Unknown	1,892	3.1	3	0.7	N.A.

"All Accident" percentages are based on 61,549 accidents which occurred in 1982. Fatal accident percentages are based on 431 fatal accidents which occurred in 1982 .

* 87.0 percent of all drivers involved in fatal accidents in Iowa during 1982 were licensed in Iowa.

** There were 27 accidents involving double bottom trucks in 1982, including 0 fatal accidents and 0 fatalities. Accidents involving double bottom trucks are included in the "truck tractor with trailer" category. For more information, contact the DOT's Office of Safety Programs.

Iowa Accidents Involving

All Vehicles

In 1982 there were:

429 motor vehicle occupants killed

24,572 motor vehicle occupants injured

61,549 accidents involving motor vehicles

431 fatal accidents involving motor vehicles

17,933 personal injury accidents involving motor vehicles

43,185 property damage accidents involving motor vehicles

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	2,653	2.6
Improper passing	968	0.9
Left of center, not passing	1,458	1.4
Failure to yield	9,477	9.3
Wrong way, one-way road	95	0.1
Speed too fast	4,613	4.5
Drag racing	21	--
Improper turn	1,204	1.2
Improper lane change	1,052	1.0
Following too close	1,648	1.6
Improper or no signal	418	0.4
Disregarded R.R. signal	37	--
Disregarded warning signal	88	0.1
Reckless driving	610	0.6
Improper backing	1,303	1.3
Illegal or improper parking	239	0.2
Failure to have control	10,470	10.3
Lights not on	107	0.1
Inattentive/distracted	3,673	3.6
Confused/inexperienced	1,510	1.5
Vision obscured	7,599	7.5
Oversized vehicle	83	0.1
Other	4,123	4.0

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	92,847	92.9
Drinking - impaired	2,799	2.8
Drinking - not impaired	2,304	2.3
Drugs	68	0.1
Physical defect	135	0.1
Fatigued	364	0.4
Apparently asleep	545	0.5
Ill	60	0.1
Under medication	70	0.1
Infirmities of age	469	0.5
Other	256	0.3
Total no. of drivers (condition stated)	99,917	
Condition not stated	2,062	
GRAND TOTAL	101,979	

Driver Sex	Number of Drivers	Percent
Male	66,916	67.8
Female	31,826	32.2
Total no. of drivers (sex known)	98,742	
Sex not stated	3,237	
GRAND TOTAL	101,979	

Driver Age	Number of Drivers	Percent
15 & younger	878	0.9
16	3,846	4.0
17	4,918	5.1
18	5,106	5.3
19	4,826	5.0
20-24	18,382	18.9
25-34	23,535	24.2
35-44	12,567	12.9
45-54	8,638	8.9
55-64	7,261	7.5
65-74	4,716	4.8
75 & older	2,568	2.6
Total no. of drivers (age known)	97,241	
Age not stated	4,738	
GRAND TOTAL	101,979	

Note: In 1982 motor vehicle accidents, 70.6 percent of the motor vehicle occupants who were killed or injured were not wearing seat belts, 3.3 percent were wearing seat belts, and seat belt use was unknown or unreported for 26.2 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	67,176	64.7
Turning left	10,732	10.3
Turning right	4,273	4.1
Backing	2,779	2.7
Stopped in traffic	4,512	4.3
Parked	6,455	6.2
Making U-turn	239	7.6
Passing	1,324	
Changing lanes	1,296	
Merging	538	
Parking	180	
Slowing-stopping	2,597	
Unattended moving vehicle	141	
Other	1,592	
Total no. of vehicles (action stated)	103,834	
Action not stated	4,741	
GRAND TOTAL	108,575	

Note: Total number of vehicles includes parked vehicles involved in accidents.

Vehicle Defect	Number of Vehicles	Percent
None	64,306	97.2
Brakes	491	
Lights	168	
Steering	147	
Wipers	43	2.8
Tires	427	
Trailer hitch	62	
Other	529	
Total no. of vehicles (defect stated)	66,173	
Defect not stated	42,402	
GRAND TOTAL	108,575	

The Environment

Light	Number of Accidents	Percent
Dawn	815	1.3
Daylight	38,513	63.0
Dusk	2,352	3.8
Darkness (road lighted)	10,752	17.6
Darkness (road unlighted)	8,735	14.3
Total no. of accidents (light stated)	61,167	
Light not stated	382	
GRAND TOTAL	61,549	

Note: Figures indicate number of accidents involving all vehicles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	33,794	54.9
Cloudy	17,259	28.0
Fog	1,189	1.9
Mist	2,108	3.4
Rain	4,040	6.6
Sleet/hail	588	1.0
Snow	4,591	7.5
Strong wind	1,476	2.4
Other	233	0.4

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for all types of vehicles.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	677	5.5
Underpass/bridge support	59	0.5
Building	358	2.9
Culvert	253	2.1
Curb	517	4.2
Ditch	3,111	25.4
Island/raised median	143	1.2
Embankment/retaining wall	351	2.9
Fence	801	6.5
Guardrail	626	5.1
Light pole	880	7.2
Sign post	727	5.9
Tree or shrubbery	742	6.0
Utility pole	1,096	8.9
Other pole or support	282	2.3
Mailbox	243	2.0
Impact attenuator	164	1.3
Other	1,241	10.1

11.3% of all vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	41,651	67.8
Traffic signals	7,671	12.5
Stop sign	8,956	14.6
Yield sign	732	
No passing zone (marked)	465	
R.R. warning sign	105	5.1
R.R. automatic signal	101	
R.R. crossing gate	56	
Other	1,656	
Total no. of accidents (control stated)	61,393	
Control not stated	156	
GRAND TOTAL	61,549	

Iowa Accidents Involving

Automobiles

In 1982 there were:
- **263 automobile occupants killed**
- **17,833 automobile occupants injured**
- **52,630 accidents involving automobiles**
  - **281 fatal accidents involving automobiles**
  - **14,471 personal injury accidents involving automobiles**
  - **37,878 property damage accidents involving automobiles**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	2,100	2.8
Improper passing	635	0.8
Left of center, not passing	1,041	1.4
Failure to yield	7,579	10.1
Wrong way, one-way road	74	0.1
Speed too fast	3,317	4.4
Drag racing	13	--
Improper turn	849	1.1
Improper lane change	741	1.0
Following too close	1,187	1.6
Improper or no signal	264	0.4
Disregarded R.R. signal	23	--
Disregarded warning signal	48	0.1
Reckless driving	421	0.6
Improper backing	845	1.1
Illegal or improper parking	167	0.2
Failure to have control	7,438	9.9
Lights not on	79	0.1
Inattentive/distracted	2,709	3.6
Confused/inexperienced	1,124	1.5
Vision obscured	5,596	7.5
Oversized vehicle	23	--
Other	2,749	3.7

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	68,288	92.9
Drinking - impaired	2,037	2.8
Drinking - not impaired	1,674	2.3
Drugs	52	0.1
Physical defect	97	0.1
Fatigued	259	0.4
Apparently asleep	391	0.5
Ill	45	0.1
Under medication	56	0.1
Infirmities of age	424	0.6
Other	197	0.3
Total no. of drivers (condition stated)	73,520	
Condition not stated	1,339	
GRAND TOTAL	74,859	

Driver Sex	Number of Drivers	Percent
Male	44,355	60.4
Female	29,083	39.6
Total no. of drivers (sex known)	73,438	
Sex not stated	1,421	
GRAND TOTAL	74,859	

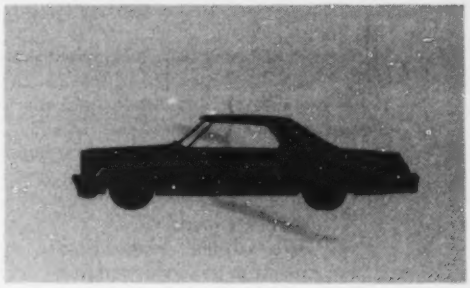
Driver Age	Number of Drivers	Percent
15 & younger	419	0.6
16	3,174	4.4
17	4,095	5.7
18	4,214	5.8
19	3,839	5.3
20-24	13,758	19.0
25-34	16,429	22.7
35-44	8,642	11.9
45-54	6,068	8.4
55-64	5,425	7.5
65-74	3,977	5.5
75 & older	2,355	3.3
Total no. of drivers (age known)	72,395	
Age not stated	2,464	
GRAND TOTAL	74,859	

Note: In 1982 automobile accidents, 69.6 percent of the automobile occupants who were killed or injured were not wearing seat belts, 3.4 percent were wearing seat belts, and seat belt use was unknown or unreported for 26.9 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	49,290	64.3
Turning left	8,286	10.8
Turning right	2,971	3.9
Backing	1,843	2.4
Stopped in traffic	3,616	4.7
Parked	5,028	6.6
Making U-turn	168	7.3
Passing	837	
Changing lanes	946	
Merging	435	
Parking	116	
Slowing-stopping	1,917	
Unattended moving vehicle	70	
Other	1,084	
Total no. of vehicles (action stated)	76,607	
Action not stated	3,350	
GRAND TOTAL	79,957	

Note: Total number of vehicles includes parked automobiles involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	46,676	97.7
Brakes	265	2.3
Lights	72	
Steering	88	
Wipers	37	
Tires	290	
Trailer hitch	12	
Other	315	
Total no. of vehicles (defect stated)	47,755	
Defect not stated	32,202	
GRAND TOTAL	79,957	

The Environment

Light	Number of Accidents	Percent
Dawn	680	1.3
Daylight	33,450	64.0
Dusk	2,052	3.9
Darkness (road lighted)	9,554	18.3
Darkness (road unlighted)	6,562	12.5
Total no. of accidents (light stated)	52,298	
Light not stated	332	
GRAND TOTAL	52,630	

Note: Figures indicate number of accidents involving automobiles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	28,829	54.8
Cloudy	14,790	28.1
Fog	957	1.8
Mist	1,800	3.4
Rain	3,497	6.6
Sleet/hail	487	0.9
Snow	3,952	7.5
Strong wind	1,151	2.2
Other	205	0.4

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	454	5.3
Underpass/bridge support	32	0.4
Building	248	2.9
Culvert	179	2.1
Curb	333	3.9
Ditch	2,052	23.9
Island/raised median	109	1.3
Embankment/retaining wall	261	3.0
Fence	554	6.4
Guardrail	468	5.4
Light pole	672	7.8
Sign post	515	6.0
Tree or shrubbery	569	6.6
Utility pole	831	9.7
Other pole or support	192	2.2
Mailbox	174	2.0
Impact attenuator	128	1.5
Other	830	9.7

10.8% of automobiles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	35,854	68.3
Traffic signals	7,009	13.4
Stop sign	7,288	13.9
Yield sign	599	4.4
No passing zone (marked)	352	
R.R. warning sign	68	
R.R. automatic signal	70	
R.R. crossing gate	44	
Other	1,201	
Total no. of accidents (control stated)	52,485	
Control not stated	145	
GRAND TOTAL	52,630	

Iowa Accidents Involving

Automobiles/Pickups With Trailers Or Campers

In 1982 there were:

- **2 occupants of automobiles/pickups with trailers or campers killed**
- **132 occupants of automobiles/pickups with trailers or campers injured**
- **748 accidents involving automobiles/pickups with trailers or campers**
  - **6 fatal accidents involving automobiles/pickups with trailers or campers**
  - **177 personal injury accidents involving automobiles/-pickups with trailers or campers**
  - **565 property damage accidents involving automobiles/pickups with trailers or campers**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	18	2.4
Improper passing	9	1.2
Left of center, not passing	14	1.8
Failure to yield	52	6.8
Wrong way, one-way road	0	--
Speed too fast	23	3.0
Drag racing	0	--
Improper turn	7	0.9
Improper lane change	6	0.8
Following too close	10	1.3
Improper or no signal	10	1.3
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	1	0.1
Improper backing	13	1.7
Illegal or improper parking	2	0.3
Failure to h[illegible] control	61	8.0
Lights not on	0	--
Inattentive/distracted	24	3.1
Confused/inexperienced	10	1.3
Vision obscured	38	5.0
Oversized vehicle	4	0.5
Other	55	7.2

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	719	95.5
Drinking - impaired	12	1.6
Drinking - not impaired	9	1.2
Drugs	0	--
Physical defect	3	0.4
Fatigued	3	0.4
Apparently asleep	3	0.4
Ill	2	0.3
Under medication	0	--
Infirmities of age	1	0.1
Other	1	0.1
Total no. of drivers (condition stated)	753	
Condition not stated	10	
GRAND TOTAL	763	

Driver Sex	Number of Drivers	Percent
Male	653	86.8
Female	99	13.2
Total no. of drivers (sex known)	752	
Sex not stated	11	
GRAND TOTAL	763	

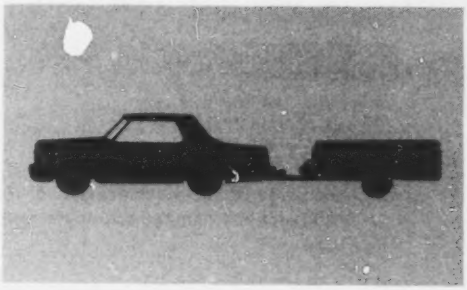
Driver Age	Number of Drivers	Percent
15 & younger	1	0.1
16	10	1.3
17	21	2.8
18	15	2.0
19	15	2.0
20-24	118	15.8
25-34	219	29.4
35-44	135	18.1
45-54	83	11.1
55-64	78	10.5
65-74	37	5.0
75 & older	13	1.7
Total no. of drivers (age known)	745	
Age not stated	18	
GRAND TOTAL	763	

Note: In 1982 automobile/pickup with trailer or camper accidents, 69.4 percent of the automobile/pickup with trailer or camper occupants who were killed or injured were not wearing seat belts, 1.5 percent were wearing seat belts, and seat belt use was unknown or unreported for 29.1 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	519	68.1
Turning left	84	11.0
Turning right	29	3.8
Backing	24	3.1
Stopped in traffic	22	2.9
Parked	25	3.3
Making U-turn	0	7.7
Passing	11	
Changing lanes	15	
Merging	1	
Parking	2	
Slowing-stopping	20	
Unattended moving vehicle	1	
Other	9	
Total no. of vehicles (action stated)	762	
Action not stated	27	
GRAND TOTAL	789	

Note: Total number of vehicles includes parked automobiles/pickups with trailers or campers.



Vehicle Defect	Number of Vehicles	Percent
None	444	88.8
Brakes	4	
Lights	3	
Steering	0	
Wipers	0	11.2
Tires	7	
Trailer hitch	25	
Other	17	
Total no. of vehicles (defect stated)	500	
Defect not stated	289	
GRAND TOTAL	789	

The Environment

Light	Number of Accidents	Percent
Dawn	8	1.1
Daylight	545	73.0
Dusk	30	4.0
Darkness (road lighted)	104	13.9
Darkness (road unlighted)	60	8.0
Total no. of accidents (light stated)	747	
Light not stated	1	
GRAND TOTAL	748	

Note: Figures indicate number of accidents involving automobiles/pickups with trailers or campers occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	427	57.1
Cloudy	213	28.5
Fog	16	2.1
Mist	27	3.6
Rain	49	6.6
Sleet/hail	9	1.2
Snow	45	6.0
Strong wind	19	2.5
Other	4	0.5

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	9	7.8
Underpass/bridge support	2	1.7
Building	1	0.9
Culvert	1	0.9
Curb	6	5.2
Ditch	22	19.0
Island/raised median	1	0.9
Embankment/retaining wall	5	4.3
Fence	7	6.0
Guardrail	10	8.6
Light pole	5	4.3
Sign post	15	12.9
Tree or shrubbery	2	1.7
Utility pole	14	12.1
Other pole or support	2	1.7
Mailbox	2	1.7
Impact attenuator	1	0.9
Other	11	9.5

14.7% of automobiles or pickups with trailers or campers involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	577	77.4
Traffic signals	69	9.3
Stop sign	64	8.6
Yield sign	3	
No passing zone (marked)	6	
R.R. warning sign	0	4.7
R.R. automatic signal	1	
R.R. crossing gate	1	
Other	24	
Total no. of accidents (control stated)	745	
Control not stated	3	
GRAND TOTAL	748	

Iowa Accidents Involving

Buses

In 1982 there were:
- **0 bus occupants killed**
- **52 bus occupants injured**
- **257 accidents involving buses**
  - **0 fatal accidents involving buses**
  - **53 personal injury accidents involving buses**
  - **204 property damage accidents involving buses**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	5	1.9
Improper passing	2	0.8
Left of center, not passing	2	0.8
Failure to yield	13	5.0
Wrong way, one-way road	0	--
Speed too fast	12	4.7
Drag racing	0	--
Improper turn	1	0.4
Improper lane change	3	1.2
Following too close	3	1.2
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	5	1.9
Illegal or improper parking	2	0.8
Failure to have control	7	2.7
Lights not on	0	--
Inattentive/distracted	4	1.6
Confused/inexperienced	1	0.4
Vision obscured	16	6.2
Oversized vehicle	1	0.4
Other	14	5.4

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	255	99.6
Drinking - impaired	0	--
Drinking - not impaired	1	0.4
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	256	
Condition not stated	2	
GRAND TOTAL	258	

Driver Sex	Number of Drivers	Percent
Male	205	82.0
Female	45	18.0
Total no. of drivers (sex known)	250	
Sex not stated	8	
GRAND TOTAL	258	

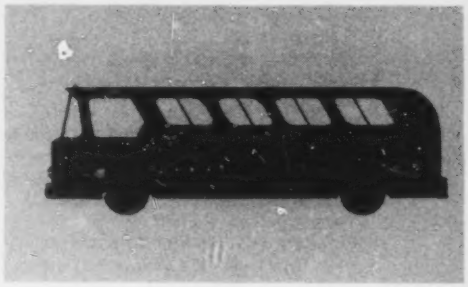
Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	1	0.4
17	1	0.4
18	0	--
19	5	2.0
20-24	28	11.4
25-34	73	29.8
35-44	54	22.0
45-54	40	16.3
55-64	37	15.1
65-74	5	2.0
75 & older	1	0.4
Total no. of drivers (age known)	245	
Age not stated	13	
GRAND TOTAL	258	

Note: In 1982 bus accidents, 84.6 percent of the bus occupants who were killed or injured were not wearing seat belts, 1.9 percent were wearing seat belts, and seat belt use was unknown or unreported for 13.5 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	148	58.5
Turning left	24	9.5
Turning right	19	7.5
Backing	7	2.8
Stopped in traffic	26	10.3
Parked	6	2.4
Making U-turn	0	9.1
Passing	3	
Changing lanes	4	
Merging	0	
Parking	0	
Slowing-stopping	11	
Unattended moving vehicle	0	
Other	5	
Total no. of vehicles (action stated)	253	
Action not stated	11	
GRAND TOTAL	264	

Note: Total number of vehicles includes parked buses involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	163	95.9
Brakes	3	4.1
Lights	1	
Steering	0	
Wipers	0	
Tires	0	
Trailer hitch	0	
Other	3	
Total no. of vehicles (defect stated)	170	
Defect not stated	94	
GRAND TOTAL	264	

The Environment

Light	Number of Accidents	Percent
Dawn	4	1.6
Daylight	216	84.0
Dusk	14	5.4
Darkness (road lighted)	17	6.6
Darkness (road unlighted)	6	2.3
Total no. of accidents (light stated)	257	
Light not stated	0	
GRAND TOTAL	257	

Note: Figures indicate number of accidents involving buses occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	110	42.8
Cloudy	94	36.6
Fog	5	1.9
Mist	11	4.3
Rain	20	7.8
Sleet/hail	5	1.9
Snow	30	11.7
Strong wind	5	1.9
Other	1	0.4

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	1	14.3
Underpass/bridge support	0	--
Building	0	--
Culvert	0	--
Curb	0	--
Ditch	1	14.3
Island/raised median	0	--
Embankment/retaining wall	0	--
Fence	0	--
Guardrail	0	--
Light pole	0	--
Sign post	2	28.6
Tree or shrubbery	0	--
Utility pole	2	28.6
Other pole or support	0	--
Mailbox	0	--
Impact attenuator	0	--
Other	1	14.3

2.7% of buses involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	168	65.9
Traffic signals	56	22.0
Stop sign	25	9.8
Yield sign	2	2.4
No passing zone (marked)	0	
R.R. warning sign	1	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	3	
Total no. of accidents (control stated)	255	
Control not stated	2	
GRAND TOTAL	257	

Iowa Accidents Involving

School Buses

In 1982 there were:

0 school bus occupants killed
89 school bus occupants injured
271 accidents involving school buses
1 fatal accident involving a school bus
58 personal injury accidents involving school buses
212 property damage accidents involving school buses

1 person was killed in a school bus accident. This person was not a school bus occupant.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	1	0.4
Improper passing	2	0.7
Left of center, not passing	9	3.3
Failure to yield	23	8.5
Wrong way, one-way road	0	--
Speed too fast	5	1.9
Drag racing	0	--
Improper turn	2	0.7
Improper lane change	2	0.7
Following too close	4	1.5
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	8	3.0
Illegal or improper parking	0	--
Failure to have control	18	6.7
Lights not on	0	--
Inattentive/distracted	3	1.1
Confused/inexperienced	5	1.9
Vision obscured	31	11.5
Oversized vehicle	0	--
Other	11	4.1

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	268	99.6
Drinking - impaired	0	--
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	1	0.4
Other	0	--
Total no. of drivers (condition stated)	269	
Condition not stated	1	
GRAND TOTAL	270	

Driver Sex	Number of Drivers	Percent
Male	161	59.6
Female	109	40.4
Total no. of drivers (sex known)	270	
Sex not stated	0	
GRAND TOTAL	270	

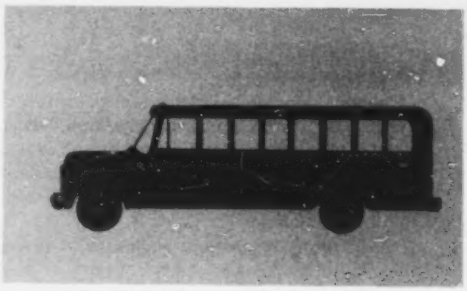
Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	1	0.4
17	1	0.4
18	1	0.4
19	4	1.5
20-24	24	9.1
25-34	60	22.6
35-44	60	22.6
45-54	51	19.2
55-64	47	17.7
65-74	16	6.0
75 & older	0	--
Total no. of drivers (age known)	265	
Age not stated	5	
GRAND TOTAL	270	

Note: In 1982 school bus accidents, 89.9 percent of the school bus occupants who were killed or injured were not wearing seat belts, 1.1 percent were wearing seat belts, and seat belt use was unknown or unreported for 9.0 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	145	55.6
Turning left	33	12.6
Turning right	16	6.1
Backing	15	5.7
Stopped in traffic	19	7.3
Parked	4	1.5
Making U-turn	0	11.1
Passing	1	
Changing lanes	2	
Merging	1	
Parking	0	
Slowing-stopping	15	
Unattended moving vehicle	0	
Other	10	
Total no. of vehicles (action stated)	261	
Action not stated	13	
GRAND TOTAL	274	

Note: Total number of vehicles includes parked school buses involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	167	98.2
Brakes	2	1.8
Lights	0	
Steering	0	
Wipers	0	
Tires	0	
Trailer hitch	0	
Other	1	
Total no. of vehicles (defect stated)	170	
Defect not stated	104	
GRAND TOTAL	274	

The Environment

Light	Number of Accidents	Percent
Dawn	4	1.5
Daylight	252	93.3
Dusk	4	1.5
Darkness (road lighted)	6	2.2
Darkness (road unlighted)	4	1.5
Total no. of accidents (light stated)	270	
Light not stated	1	
GRAND TOTAL	271	

Note: Figures indicate number of accidents involving school buses occurring under the conditions indicated.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	0	--
Underpass/bridge support	0	--
Building	0	--
Culvert	0	--
Curb	0	--
Ditch	3	33.3
Island/raised median	0	--
Embankment/retaining wall	0	--
Fence	1	11.1
Guardrail	2	22.2
Light pole	0	--
Sign post	1	11.1
Tree or shrubbery	1	11.1
Utility pole	1	11.1
Other pole or support	0	--
Mailbox	0	--
Impact attenuator	0	--
Other	0	--

3.3% of school buses involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Weather	Number of Accidents	Percent
Clear	133	49.1
Cloudy	84	31.0
Fog	9	3.3
Mist	11	4.1
Rain	16	5.9
Sleet/hail	3	1.1
Snow	31	11.4
Strong wind	6	2.2
Other	3	1.1

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Traffic Controls	Number of Accidents	Percent
No controls	185	68.3
Traffic signals	25	9.2
Stop sign	41	15.1
Yield sign	4	7.4
No passing zone (marked)	0	
R.R. warning sign	2	
R.R. automatic signal	1	
R.R. crossing gate	1	
Other	12	
Total no. of accidents (control stated)	271	
Control not stated	0	
GRAND TOTAL	271	

Iowa Accidents Involving

Bicycles

In 1982 there were:

12 bicycle riders killed in bicycle/motor vehicle accidents
555 bicycle riders injured in bicycle/motor vehicle accidents
589 accidents involving bicycles/motor vehicles
12 fatal accidents involving bicycles/motor vehicles
550 personal injury accidents involving bicycles/motor vehicles
27 property damage accidents involving bicycles/-motor vehicles

The Driver Of Motor Vehicle Involved

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	9	1.5
Improper passing	6	1.0
Left of center, not passing	4	0.7
Failure to yield	71	12.1
Wrong way, one-way road	0	--
Speed too fast	5	0.9
Drag racing	0	--
Improper turn	4	0.7
Improper lane change	3	0.5
Following too close	1	0.2
Improper or no signal	1	0.2
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	3	0.5
Improper backing	2	0.3
Illegal or improper parking	0	--
Failure to have control	9	1.5
Lights not on	0	--
Inattentive/distracted	21	3.6
Confused/inexperienced	2	0.3
Vision obscured	66	11.2
Oversized vehicle	0	--
Other	18	3.1

Note From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	553	97.4
Drinking - impaired	6	1.1
Drinking - not impaired	5	0.9
Drugs	0	--
Physical defect	0	--
Fatigued	2	0.4
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	2	0.4
Other	0	--
Total no. of drivers (condition stated)	568	
Condition not stated	19	
GRAND TOTAL	587	

Driver Sex	Number of Drivers	Percent
Male	370	66.4
Female	187	33.6
Total no. of drivers (sex known)	557	
Sex not stated	30	
GRAND TOTAL	587	

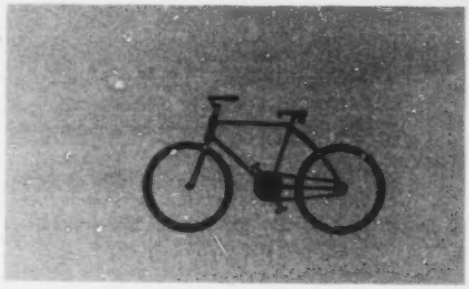
Driver Age	Number of Drivers	Percent
15 & younger	11	2.0
16	15	2.7
17	35	6.4
18	18	3.3
19	15	2.7
20-24	82	14.9
25-34	117	21.3
35-44	82	14.9
45-54	64	11.6
55-64	49	8.9
65-74	44	8.0
75 & older	18	3.3
Total no. of drivers (age known)	550	
Age not stated	37	
GRAND TOTAL	587	

The Motor Vehicle

Vehicle Action	Number of Vehicles	Percent
Going straight	408	69.7
Turning left	75	12.8
Turning right	49	8.4
Backing	12	2.1
Stopped in traffic	5	0.9
Parked	6	1.0
Making U-turn	1	5.1
Passing	16	
Changing lanes	0	
Merging	2	
Parking	1	
Slowing-stopping	4	
Unattended moving vehicle	0	
Other	6	
Total no. of vehicles (action stated)	585	
Action not stated	8	
GRAND TOTAL	593	

Note Total number of vehicles includes parked motor vehicles involved in bicycle/motor vehicle accidents.

Type of Motor Vehicle Involved in Collision	Number of Vehicles	Percent
Automobile	449	77.3
Automobile/pickup with trailer or camper	2	0.3
Bus	1	0.2
School bus	2	0.3
Moped	15	2.6
Motorcycle	18	3.1
Farm vehicle	1	0.2
Motor home	2	0.3
Recreational vehicle	2	0.3
Panel/van/pickup	77	13.3
Straight truck	5	0.9
Tow/maintenance/ construction vehicle	1	0.2
Truck tractor	1	0.2
Truck tractor with trailer	4	0.7
Other	1	0.2
Total no. of vehicles (vehicle type stated)	581	
Type not stated	12	
GRAND TOTAL	593	



The Environment

Light	Number of Accidents	Percent
Dawn	3	0.5
Daylight	492	83.8
Dusk	33	5.6
Darkness (road lighted)	49	8.3
Darkness (road unlighted)	10	1.7
Total no. of accidents (light stated)	587	
Light not stated	2	
GRAND TOTAL	589	

Note: Figures indicate number of accidents involving bicycle/motor vehicle collisions occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	407	69.1
Cloudy	156	26.5
Fog	4	0.7
Mist	12	2.0
Rain	22	3.7
Sleet/hail	1	0.2
Snow	1	0.2
Strong wind	0	--
Other	2	0.3

Note: Some accident reports listed more than one type of weather condition. The percentages listed for each weather condition is based on the total number of accidents for this type of vehicle.

Traffic Controls	Number of Accidents	Percent
No controls	422	71.8
Traffic signals	80	13.6
Stop sign	70	11.9
Yield sign	6	2.7
No passing zone (marked)	1	
R.R. warning sign	0	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	9	
Total no. of accidents (control stated)	588	
Control not stated	1	
GRAND TOTAL	589	

The Bicyclist

Bicyclist Sex	Killed	Injured
Male	7	382
Female	5	130
Total no. of bicyclists (sex known)	12	512
Sex not stated	0	43
GRAND TOTAL	12	555

Bicyclist Age	Killed	Injured
0-4	0	14
5-9	3	96
10-14	4	215
15-19	0	98
20-24	2	45
25-44	2	57
45-64	0	10
65 & older	1	3
Total no. of bicyclists (age known)	12	538
Age not stated	0	17
GRAND TOTAL	12	555

Iowa Accidents Involving

Mopeds

In 1982 there were:

- **3 moped operators or passengers killed**
- **435 moped operators or passengers injured**
- **453 accidents involving mopeds**
  - **3 fatal accidents involving mopeds**
  - **433 personal injury accidents involving mopeds**
  - **17 property damage accidents involving mopeds**

The Operator

Operator Action/ Contributing Circumstances	Number of Operators	Percent
Ran traffic control	10	2.1
Improper passing	4	0.9
Left of center, not passing	7	1.5
Failure to yield	30	6.4
Wrong way, one-way road	2	0.4
Speed too fast	11	2.4
Drag racing	0	--
Improper turn	9	1.9
Improper lane change	3	0.6
Following too close	12	2.6
Improper or no signal	2	0.4
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	3	0.6
Improper backing	0	--
Illegal or improper parking	0	--
Failure to have control	63	13.5
Lights not on	1	0.2
Inattentive/distracted	44	9.4
Confused/inexperienced	49	10.5
Vision obscured	14	3.0
Oversized vehicle	0	--
Other	30	6.4

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident.

Operator Condition	Number of Operators	Percent
Apparently normal	443	97.4
Drinking - impaired	4	0.9
Drinking - not impaired	1	0.2
Drugs	0	--
Physical defect	1	0.2
Fatigued	1	0.2
Apparently asleep	0	--
Ill	2	0.4
Under medication	1	0.2
Infirmities of age	1	0.2
Other	1	0.2
Total no. of operators (condition stated)	455	
Condition not stated	13	
GRAND TOTAL	468	

Operator Sex	Number of Operators	Percent
Male	312	67.0
Female	154	33.0
Total no. of operators (sex known)	466	
Sex not stated	2	
GRAND TOTAL	468	

Operator Age	Number of Operators	Percent
15 & younger	287	62.0
16	48	10.4
17	19	4.1
18	14	3.0
19	4	0.9
20-24	22	4.8
25-34	30	6.5
35-44	11	2.4
45-54	12	2.6
55-64	10	2.2
65-74	5	1.1
75 & older	1	0.2
Total no. of operators (age known)	463	
Age not stated	5	
GRAND TOTAL	468	

Note: In 1982 moped accidents, 84.9 percent of the moped riders who were killed or injured were not wearing helmets, 5.0 percent were wearing helmets, and helmet use was unknown or unreported for 10.0 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	341	73.3
Turning left	62	13.3
Turning right	25	5.4
Backing	2	0.4
Stopped in traffic	4	0.9
Parked	1	0.2
Making U-turn	4	6.5
Passing	4	
Changing lanes	2	
Merging	3	
Parking	0	
Slowing-stopping	11	
Unattended moving vehicle	0	
Other	6	
Total no. of vehicles (action stated)	465	
Action not stated	4	
GRAND TOTAL	469	

Note: Total number of vehicles includes parked mopeds involved in accidents.

Vehicle Defect	Number of Vehicles	Percent
None	332	96.5
Brakes	10	3.5
Lights	0	
Steering	1	
Tires	0	
Other	1	
Total no. of vehicles (defect stated)	344	
Defect not stated	125	
GRAND TOTAL	469	

The Environment

Light	Number of Accidents	Percent
Dawn	3	0.7
Daylight	359	79.6
Dusk	22	4.9
Darkness (road lighted)	53	11.8
Darkness (road unlighted)	14	3.1
Total no. of accidents (light stated)	451	
Light not stated	2	
GRAND TOTAL	453	

Note: Figures indicate number of accidents involving mopeds occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	315	69.5
Cloudy	120	26.5
Fog	3	0.7
Mist	8	1.8
Rain	16	3.5
Sleet/hail	0	--
Snow	1	0.2
Strong wind	1	0.2
Other	0	--

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	1	2.8
Underpass/bridge support	0	--
Building	1	2.8
Culvert	0	--
Curb	19	52.8
Ditch	1	2.8
Island/raised median	0	--
Embankment/retaining wall	0	--
Fence	0	--
Guardrail	1	2.8
Light pole	1	2.8
Sign post	2	5.6
Tree or shrubbery	0	--
Utility pole	1	2.8
Other pole or support	0	--
Mailbox	1	2.8
Impact attenuator	0	--
Other	8	22.2

7.7% of mopeds involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	392	86.7
Traffic signals	24	5.3
Stop sign	26	5.8
Yield sign	3	2.2
No passing zone (marked)	1	
R.R. warning sign	2	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	4	
Total no. of accidents (control stated)	452	
Control not stated	1	
GRAND TOTAL	453	

Iowa Accidents Involving

Motorcycles

In 1982 there were:

- **66 motorcycle operators or passengers killed**
- **2,048 motorcycle operators or passengers injured**
- **2,152 accidents involving motorcycles**
  - **65 fatal accidents involving motorcycles**
  - **1,781 personal injury accidents involving motorcycles**
  - **306 property damage accidents involving motorcycles**

The Operator

Operator Action/ Contributing Circumstances	Number of Operators	Percent
Ran traffic control	32	1.5
Improper passing	56	2.6
Left of center, not passing	17	0.8
Failure to yield	82	3.7
Wrong way, one-way road	2	0.1
Speed too fast	173	7.9
Drag racing	3	0.1
Improper turn	11	0.5
Improper lane change	12	0.5
Following too close	37	1.7
Improper or no signal	10	0.5
Disregarded R.R. signal	0	--
Disregarded warning signal	2	0.1
Reckless driving	34	1.6
Improper backing	1	--
Illegal or improper parking	1	--
Failure to have control	422	19.3
Lights not on	8	0.4
Inattentive/distracted	83	3.8
Confused/inexperienced	70	3.2
Vision obscured	88	4.0
Oversized vehicle	0	--
Other	109	5.0

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident.

Operator Condition	Number of Operators	Percent
Apparently normal	1,837	87.4
Drinking - impaired	115	5.5
Drinking - not impaired	126	6.0
Drugs	2	0.1
Physical defect	5	0.2
Fatigued	3	0.1
Apparently asleep	2	0.1
Ill	0	--
Under medication	4	0.2
Infirmities of age	1	--
Other	8	0.4
Total no. of operators (condition stated)	2,103	
Condition not stated	86	
GRAND TOTAL	2,189	

Operator Sex	Number of Operators	Percent
Male	2,102	96.6
Female	75	3.4
Total no. of operators (sex known)	2,177	
Sex not stated	12	
GRAND TOTAL	2,189	

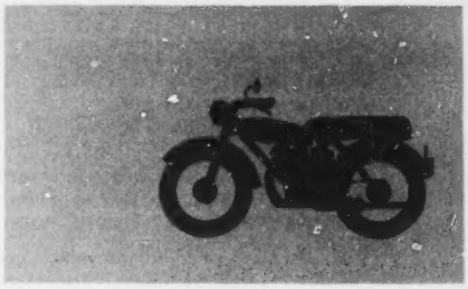
Operator Age	Number of Operators	Percent
15 & younger	65	3.0
16	65	3.0
17	132	6.1
18	184	8.5
19	202	9.3
20-24	691	31.9
25-34	542	25.0
35-44	185	8.5
45-54	73	3.4
55-64	19	0.9
65-74	4	0.2
75 & older	4	0.2
Total no. of operators (age known)	2,166	
Age not stated	23	
GRAND TOTAL	2,189	

Note: In 1982 motorcycle accidents, 74.1 percent of the motorcycle riders who were killed or injured were not wearing helmets, 16.0 percent were wearing helmets, and helmet use was unknown or unreported for 9.8 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	1,672	76.4
Turning left	154	7.0
Turning right	102	4.7
Backing	6	0.3
Stopped in traffic	25	1.1
Parked	33	1.5
Making U-turn	12	9.0
Passing	73	
Changing lanes	18	
Merging	11	
Parking	1	
Slowing-stopping	39	
Unattended moving vehicle	0	
Other	43	
Total no. of vehicles (action stated)	2,189	
Action not stated	33	
GRAND TOTAL	2,222	

Note: Total number of vehicles includes parked motorcycles involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	1,492	95.4
Brakes	13	4.6
Lights	13	
Steering	4	
Tires	24	
Other	18	
Total no. of vehicles (defect stated)	1,564	
Defect not stated	658	
GRAND TOTAL	2,222	

The Environment

Light	Number of Accidents	Percent
Dawn	16	0.7
Daylight	1,384	64.6
Dusk	84	3.9
Darkness (road lighted)	412	19.2
Darkness (road unlighted)	247	11.5
Total no. of accidents (light stated)	2,143	
Light not stated	9	
GRAND TOTAL	2,152	

Note: Figures indicate number of accidents involving motorcycles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	1,573	73.1
Cloudy	491	22.8
Fog	14	0.7
Mist	26	1.2
Rain	64	3.0
Sleet/hail	0	--
Snow	8	0.4
Strong wind	16	0.7
Other	6	0.3

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	6	1.7
Underpass/bridge support	0	--
Building	4	1.1
Culvert	4	1.1
Curb	79	22.6
Ditch	112	32.1
Island/raised median	10	2.9
Embankment/retaining wall	12	3.4
Fence	19	5.4
Guardrail	10	2.9
Light pole	7	2.0
Sign post	14	4.0
Tree or shrubbery	8	2.3
Utility pole	10	2.9
Other pole or support	9	2.6
Mailbox	6	1.7
Impact attenuator	4	1.1
Other	35	10.0

15.7% of motorcycles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	1,706	79.3
Traffic signals	214	9.9
Stop sign	111	5.2
Yield sign	12	5.6
No passing zone (marked)	29	
R.R. warning sign	8	
R.R. automatic signal	3	
R.R. crossing gate	0	
Other	69	
Total no. of accidents (control stated)	2,152	
Control not stated	0	
GRAND TOTAL	2,152	

Iowa Accidents Involving

Farm Vehicles

In 1982 there were:

8 farm vehicle occupants killed
52 farm vehicle occupants injured
368 accidents involving farm vehicles
10 fatal accidents involving farm vehicles
121 personal injury accidents involving farm vehicles
237 property damage accidents involving farm vehicles

10 persons were killed in farm vehicle accidents. Of this number, 2 (20.0 percent) were not farm vehicle occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	2	0.5
Improper passing	1	0.3
Left of center, not passing	16	4.4
Failure to yield	42	11.5
Wrong way, one-way road	0	--
Speed too fast	6	1.6
Drag racing	0	--
Improper turn	12	3.3
Improper lane change	3	0.8
Following too close	2	0.5
Improper or no signal	23	6.3
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	6	1.6
Illegal or improper parking	0	--
Failure to have control	12	3.3
Lights not on	1	0.3
Inattentive/distracted	8	2.2
Confused/inexperienced	5	1.4
Vision obscured	34	9.3
Oversized vehicle	8	2.2
Other	28	7.7

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	352	97.0
Drinking - impaired	2	0.6
Drinking - not impaired	3	0.8
Drugs	0	--
Physical defect	1	0.3
Fatigued	1	0.3
Apparently asleep	1	0.3
Ill	0	--
Under medication	0	--
Infirmities of age	1	0.3
Other	2	0.6
Total no. of drivers (condition stated)	363	
Condition not stated	1	
GRAND TOTAL	364	

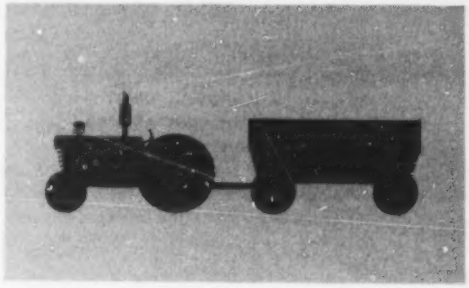
Driver Sex	Number of Drivers	Percent
Male	341	95.8
Female	15	4.2
Total no. of drivers (sex known)	356	
Sex not stated	8	
GRAND TOTAL	364	

Driver Age	Number of Drivers	Percent
15 & younger	12	3.4
16	8	2.3
17	11	3.1
18	14	4.0
19	11	3.1
20-24	59	16.7
25-34	77	21.8
35-44	56	15.8
45-54	4[illegible]	12.7
55-64	[illegible]	10.2
65-74	19	5.4
75 & older	6	1.7
Total no. of drivers (age known)	354	
Age not stated	10	
GRAND TOTAL	364	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	197	54.3
Turning left	106	29.2
Turning right	15	4.1
Backing	11	3.0
Stopped in traffic	3	0.8
Parked	10	2.8
Making U-turn	1	5.8
Passing	8	
Changing lanes	1	
Merging	1	
Parking	0	
Slowing-stopping	3	
Unattended moving vehicle	0	
Other	7	
Total no. of vehicles (action stated)	363	
Action not stated	11	
GRAND TOTAL	374	

Note: Total number of vehicles includes parked farm vehicles involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	244	87.5
Brakes	1	
Lights	8	
Steering	4	
Wipers	0	12.5
Tires	2	
Trailer hitch	5	
Other	15	
Total no. of vehicles (defect stated)	279	
Defect not stated	95	
GRAND TOTAL	374	

The Environment

Light	Number of Accidents	Percent
Dawn	0	--
Daylight	280	76.1
Dusk	12	3.3
Darkness (road lighted)	7	1.9
Darkness (road unlighted)	69	18.8
Total no. of accidents (light stated)	368	
Light not stated	0	
GRAND TOTAL	368	

Note: Figures indicate number of accidents involving farm vehicles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	219	59.5
Cloudy	111	30.2
Fog	11	3.0
Mist	9	2.4
Rain	13	3.5
Sleet/hail	0	--
Snow	12	3.3
Strong wind	10	2.7
Other	0	--

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	5	14.7
Underpass/bridge support	0	--
Building	0	--
Culvert	0	--
Curb	2	5.9
Ditch	17	50.0
Island/raised median	0	--
Embankment/retaining wall	2	5.9
Fence	3	8.8
Guardrail	0	--
Light pole	2	5.9
Sign post	0	--
Tree or shrubbery	1	2.9
Utility pole	1	2.9
Other pole or support	0	--
Mailbox	1	2.9
Impact attenuator	0	--
Other	0	--

9.1% of farm vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	331	90.0
Traffic signals	1	0.3
Stop sign	16	4.3
Yield sign	2	
No passing zone (marked)	8	
R.R. warning sign	1	5.4
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	9	
Total no. of accidents (control stated)	368	
Control not stated	0	
GRAND TOTAL	368	

Iowa Accidents Involving

Motor Homes

In 1982 there were:
- **2 motor home occupants killed**
- **25 motor home occupants injured**
- **70 accidents involving motor homes**
  - **2 fatal accidents involving motor homes**
  - **22 personal injury accidents involving motor homes**
  - **46 property damage accidents involving motor homes**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	2	3.1
Improper passing	1	1.5
Left of center, not passing	0	--
Failure to yield	5	7.7
Wrong way, one-way road	0	--
Speed too fast	1	1.5
Drag racing	0	--
Improper turn	3	4.6
Improper lane change	1	1.5
Following too close	0	--
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	1	1.5
Illegal or improper parking	0	--
Failure to have control	4	6.2
Lights not on	0	--
Inattentive/distracted	2	3.1
Confused/inexperienced	1	1.5
Vision obscured	4	6.2
Oversized vehicle	1	1.5
Other	6	9.2

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	61	95.3
Drinking - impaired	2	3.1
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	1	1.6
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	64	
Condition not stated	1	
GRAND TOTAL	65	

Driver Sex	Number of Drivers	Percent
Male	55	85.9
Female	9	14.1
Total no. of drivers (sex known)	64	
Sex not stated	1	
GRAND TOTAL	65	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	1	1.6
19	0	--
20-24	4	6.3
25-34	8	12.7
35-44	13	20.6
45-54	7	11.1
55-64	11	17.5
65-74	17	27.0
75 & older	2	3.2
Total no. of drivers (age known)	63	
Age not stated	2	
GRAND TOTAL	65	

Note: In 1982 motor home accidents, 96.3 percent of the motor home occupants who were killed or injured were not wearing seat belts. None were wearing seat belts, and seat belt use was unknown or unreported for 3.7 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	44	62.9
Turning left	9	12.9
Turning right	5	7.1
Backing	1	1.4
Stopped in traffic	0	--
Parked	4	5.7
Making U-turn	0	10.0
Passing	3	
Changing lanes	1	
Merging	0	
Parking	1	
Slowing-stopping	0	
Unattended moving vehicle	1	
Other	1	
Total no. of vehicles (action stated)	70	
Action not stated	0	
GRAND TOTAL	70	

Note: Total number of vehicles includes parked motor homes involved in accidents.

Vehicle Defect	Number of Vehicles	Percent
None	48	96.0
Brakes	1	4.0
Lights	0	
Steering	0	
Wipers	0	
Tires	1	
Trailer hitch	0	
Other	0	
Total no. of vehicles (defect stated)	50	
Defect not stated	20	
GRAND TOTAL	70	

The Environment

Light	Number of Accidents	Percent
Dawn	1	1.5
Daylight	48	70.6
Dusk	2	2.9
Darkness (road lighted)	8	11.8
Darkness (road unlighted)	9	13.2
Total no. of accidents (light stated)	68	
Light not stated	2	
GRAND TOTAL	70	

Note: Figures indicate number of accidents involving motor homes occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	40	57.1
Cloudy	18	25.7
Fog	0	--
Mist	1	1.4
Rain	6	8.6
Sleet/hail	0	--
Snow	4	5.7
Strong wind	3	4.3
Other	1	1.4

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	1	10.0
Underpass/bridge support	0	--
Building	1	10.0
Culvert	0	--
Curb	0	--
Ditch	3	30.0
Island/raised median	0	--
Embankment/retaining wall	0	--
Fence	2	20.0
Guardrail	0	--
Light pole	0	--
Sign post	0	--
Tree or shrubbery	0	--
Utility pole	0	--
Other pole or support	1	10.0
Mailbox	1	10.0
Impact attenuator	1	10.0
Other	0	--

14.3% of motor homes involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	50	71.4
Traffic signals	8	11.4
Stop sign	7	10.0
Yield sign	0	7.1
No passing zone (marked)	0	
R.R. warning sign	0	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	5	
Total no. of accidents (control stated)	70	
Control not stated	0	
GRAND TOTAL	70	

Iowa Accidents Involving

Recreational Vehicles

In 1982 there were:

13 recreational vehicle occupants killed
168 recreational vehicle occupants injured
474 accidents involving recreational vehicles
9 fatal accidents involving recreational vehicles
152 personal injury accidents involving recreational vehicles
313 property damage accidents involving recreational vehicles

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	14	3.1
Improper passing	1	0.2
Left of center, not passing	5	1.1
Failure to yield	35	7.7
Wrong way, one-way road	1	0.2
Speed too fast	35	7.7
Drag racing	0	--
Improper turn	5	1.1
Improper lane change	2	0.4
Following too close	5	1.1
Improper or no signal	2	0.4
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	10	2.2
Improper backing	10	2.2
Illegal or improper parking	1	0.2
Failure to have control	72	15.9
Lights not on	0	--
Inattentive/distracted	21	4.6
Confused/inexperienced	13	2.9
Vision obscured	44	9.7
Oversized vehicle	0	--
Other	29	6.4

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	392	87.9
Drinking - impaired	19	4.3
Drinking - not impaired	28	6.3
Drugs	0	--
Physical defect	0	--
Fatigued	4	0.9
Apparently asleep	3	0.7
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	446	
Condition not stated	8	
GRAND TOTAL	454	

Driver Sex	Number of Drivers	Percent
Male	350	78.0
Female	99	22.0
Total no. of drivers (sex known)	449	
Sex not stated	5	
GRAND TOTAL	454	

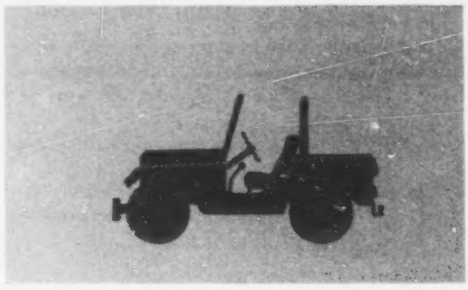
Driver Age	Number of Drivers	Percent
15 & younger	12	2.7
16	21	4.7
17	19	4.3
18	19	4.3
19	18	4.0
20-24	88	19.8
25-34	144	32.4
35-44	67	15.1
45-54	28	6.3
55-64	17	3.8
65-74	11	2.5
75 & older	1	0.2
Total no. of drivers (age known)	445	
Age not stated	9	
GRAND TOTAL	454	

Note: In 1982 recreational vehicle accidents, 73.5 percent of the recreational vehicle occupants who were killed or injured were not wearing seat belts, 2.8 percent were wearing seat belts, and seat belt use was unknown or unreported for 23.8 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	309	67.5
Turning left	34	7.4
Turning right	21	4.6
Backing	16	3.5
Stopped in traffic	17	3.7
Parked	24	5.2
Making U-turn	1	8.1
Passing	7	
Changing lanes	3	
Merging	2	
Parking	1	
Slowing-stopping	10	
Unattended moving vehicle	2	
Other	11	
Total no. of vehicles (action stated)	458	
Action not stated	22	
GRAND TOTAL	480	

Note: Total number of vehicles includes parked recreational vehicles involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	276	96.2
Brakes	1	
Lights	0	
Steering	4	
Wipers	0	3.8
Tires	0	
Trailer hitch	1	
Other	5	
Total no. of vehicles (defect stated)	287	
Defect not stated	193	
GRAND TOTAL	480	

The Environment

Light	Number of Accidents	Percent
Dawn	4	0.9
Daylight	275	58.5
Dusk	22	4.7
Darkness (road lighted)	90	19.2
Darkness (road unlighted)	79	16.8
Total no. of accidents (light stated)	470	
Light not stated	4	
GRAND TOTAL	474	

Note: Figures indicate number of accidents involving recreational vehicles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	233	49.2
Cloudy	130	27.4
Fog	7	1.5
Mist	19	4.0
Rain	33	7.0
Sleet/hail	8	1.7
Snow	61	12.9
Strong wind	26	5.5
Other	1	0.2

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	5	6.1
Underpass/bridge support	0	--
Building	1	1.2
Culvert	1	1.2
Curb	2	2.4
Ditch	33	40.2
Island/raised median	1	1.2
Embankment/retaining wall	3	3.7
Fence	5	6.1
Guardrail	5	6.1
Light pole	2	2.4
Sign post	3	3.7
Tree or shrubbery	1	1.2
Utility pole	5	6.1
Other pole or support	2	2.4
Mailbox	2	2.4
Impact attenuator	1	1.2
Other	10	12.2

17.1% of recreational vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	360	76.3
Traffic signals	45	9.5
Stop sign	44	9.3
Yield sign	3	
No passing zone (marked)	7	
R.R. warning sign	0	4.9
R.R. automatic signal	1	
R.R. crossing gate	0	
Other	12	
Total no. of accidents (control stated)	472	
Control not stated	2	
GRAND TOTAL	474	

Iowa Accidents Involving

Trains

In 1982 there were:

- **8 persons killed in train/motor vehicle accidents**
- **69 persons injured in train/motor vehicle accidents**
- **133 train/motor vehicle accidents involving 133 trains and 133 vehicles**
  - **8 fatal accidents involving trains/motor vehicles**
  - **49 personal injury accidents involving trains/motor vehicles**
  - **76 property damage accidents involving trains/motor vehicles**

The Driver Of Motor Vehicle Involved

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	6	4.5
Improper passing	0	--
Left of center, not passing	0	--
Failure to yield	7	5.3
Wrong way, one-way road	0	--
Speed too fast	9	6.8
Drag racing	0	--
Improper turn	0	--
Improper lane change	0	--
Following too close	0	--
Improper or no signal	1	0.8
Disregarded R.R. signal	33	25.0
Disregarded warning signal	7	5.3
Reckless driving	0	--
Improper backing	0	--
Illegal or improper parking	0	--
Failure to have control	11	8.3
Lights not on	1	0.8
Inattentive/distracted	18	13.6
Confused/inexperienced	2	1.5
Vision obscured	16	12.1
Oversized vehicle	1	0.8
Other	8	6.1

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	109	84.5
Drinking - impaired	8	6.2
Drinking - not impaired	6	4.7
Drugs	0	--
Physical defect	1	0.8
Fatigued	3	2.3
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	2	1.6
Total no. of drivers (condition stated)	129	
Condition not stated	3	
GRAND TOTAL	132	

crossings. Private crossing accident information is not included. All 8 persons killed were motor vehicle drivers, riders or occupants.)

Driver Sex	Number of Drivers	Percent
Male	106	80.9
Female	25	19.1
Total no. of drivers (sex known)	131	
Sex not stated	1	
GRAND TOTAL	132	

Driver Age	Number of Drivers	Percent
15 & younger	2	1.5
16	5	3.8
17	2	1.5
18	4	3.1
19	5	3.8
20-24	26	19.8
25-34	35	26.7
35-44	13	9.9
45-54	17	13.0
55-64	15	11.5
65-74	6	4.6
75 & older	1	0.8
Total no. of drivers (age known)	131	
Age not stated	1	
GRAND TOTAL	132	

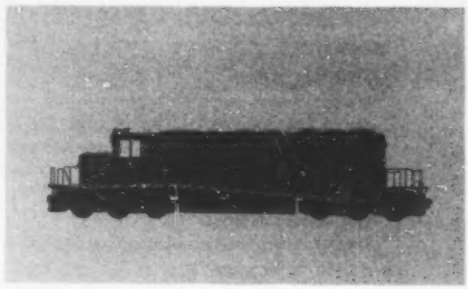
Note: In 1982 train/motor vehicle accidents, 75.7 percent of the motor vehicle occupants who were killed or injured were not wearing seat belts. None were wearing seat belts, and seat belt use was unknown or unreported for 24.3 percent of those killed or injured.

The Motor Vehicle

Vehicle Action	Number of Vehicles	Percent
Going straight	118	89.4
Turning left	0	--
Turning right	3	2.3
Backing	2	1.5
Stopped in traffic	6	4.5
Parked	1	0.8
Making U-turn	0	1.5
Passing	0	
Changing lanes	0	
Merging	0	
Parking	0	
Slowing-stopping	1	
Unattended moving vehicle	0	
Other	1	
Total no. of vehicles (action stated)	132	
Action not stated	1	
GRAND TOTAL	133	

Note: Total number of vehicles includes parked motor vehicles involved in train/-motor vehicle accidents.

Vehicle Defect	Number of Vehicles	Percent
None	77	92.8
Brakes	1	7.2
Lights	1	
Steering	0	
Wipers	0	
Tires	2	
Trailer hitch	0	
Other	2	
Total no. of vehicles (defect stated)	83	
Defect not stated	50	
GRAND TOTAL	133	



Type of Motor Vehicle Involved in Collision	Number of Vehicles	Percent
Automobile	78	58.6
Automobile/pickup with trailer or camper	1	0.8
Bus	0	--
School bus	0	--
Moped	1	0.8
Motorcycle	1	0.8
Farm vehicle	2	1.5
Motor home	0	--
Recreational vehicle	1	0.8
Panel/van/pickup	28	21.1
Straight truck	6	4.5
Tow/maintenance/ construction vehicles	2	1.5
Truck tractor	0	--
Truck tractor with trailer	13	9.8
Other	0	--
Total no. of vehicles (vehicle type stated)	133	
Type not stated	0	
GRAND TOTAL	133	

The Environment

Light	Number of Accidents	Percent
Dawn	4	3.0
Daylight	73	55.3
Dusk	2	1.5
Darkness (road lighted)	33	25.0
Darkness (road unlighted)	20	15.2
Total no. of accidents (light stated)	132	
Light not stated	1	
GRAND TOTAL	133	

Note: Figures indicate number of accidents involving train/motor vehicle collisions occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	81	60.9
Cloudy	32	24.1
Fog	5	3.8
Mist	1	0.8
Rain	2	1.5
Sleet/hail	1	0.8
Snow	10	7.5
Strong wind	4	3.0
Other	1	0.8

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Traffic Controls	Number of Accidents	Percent
No controls	19	14.4
Traffic signals	3	2.3
Stop sign	10	7.6
Yield sign	0	--
No passing zone (marked)	0	--
R.R. warning sign	43	32.6
R.R. automatic signal	34	25.8
R.R. crossing gate	9	6.8
Other	14	10.6
Total no. of accidents (control stated)	132	
Control not stated	1	
GRAND TOTAL	133	

Iowa Accidents Involving

Panels/Vans/Pickups

In 1982 there were:

64 panel/van/pickup occupants killed
2,981 panel/van/pickup occupants injured
14,965 accidents involving panels/vans/pickups
109 fatal accidents involving panels/vans/pickups
3,781 personal injury accidents involving panels/-vans/pickups
11,075 property damage accidents involving panels/-vans/pickups

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	367	2.4
Improper passing	133	0.9
Left of center, not passing	263	1.7
Failure to yield	1,315	8.6
Wrong way, one-way road	11	0.1
Speed too fast	782	5.1
Drag racing	2	--
Improper turn	188	1.2
Improper lane change	161	1.1
Following too close	255	1.7
Improper or no signal	73	0.5
Disregarded R.R. signal	6	--
Disregarded warning signal	22	0.1
Reckless driving	107	0.7
Improper backing	267	1.8
Illegal or improper parking	42	0.3
Failure to have control	1,683	11.0
Lights not on	16	0.1
Inattentive/distracted	583	3.8
Confused/inexperienced	167	1.1
Vision obscured	1,213	8.0
Oversized vehicle	8	0.1
Other	658	4.3

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	13,632	91.5
Drinking - impaired	559	3.8
Drinking - not impaired	436	2.9
Drugs	11	0.1
Physical defect	21	0.1
Fatigued	58	0.4
Apparently asleep	98	0.7
Ill	10	0.1
Under medication	6	--
Infirmities of age	35	0.2
Other	30	0.2
Total no. of drivers (condition stated)	14,896	
Condition not stated	337	
GRAND TOTAL	15,233	

Driver Sex	Number of Drivers	Percent
Male	13,039	87.6
Female	1,841	12.4
Total no. of drivers (sex known)	14,880	
Sex not stated	353	
GRAND TOTAL	15,233	

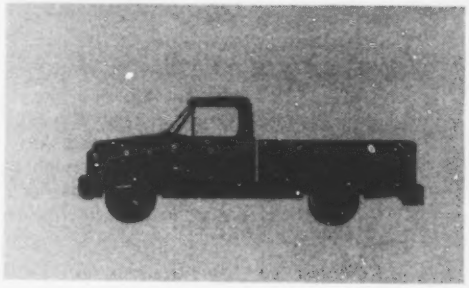
Driver Age	Number of Drivers	Percent
15 & younger	74	0.5
16	495	3.4
17	572	3.9
18	566	3.9
19	646	4.4
20-24	2,701	18.4
25-34	4,165	28.4
35-44	2,231	15.2
45-54	1,469	10.0
55-64	1,063	7.2
65-74	521	3.6
75 & older	163	1.1
Total no. of drivers (age known)	14,666	
Age not stated	567	
GRAND TOTAL	15,233	

Note: In 1982 panel/van/pickup accidents, 23.2 percent of the panel/van/pickup occupants who were killed or injured were not wearing seat belts, 2.5 percent were wearing seat belts, and seat belt use was unknown or unreported for 74.4 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	10,132	64.9
Turning left	1,451	9.3
Turning right	642	4.1
Backing	545	3.5
Stopped in traffic	575	3.7
Parked	1,050	6.7
Making U-turn	35	7.8
Passing	196	
Changing lanes	175	
Merging	64	
Parking	44	
Slowing-stopping	419	
Unattended moving vehicle	35	
Other	256	
Total no. of vehicles (action stated)	15,619	
Action not stated	699	
GRAND TOTAL	16,318	

Note: Total number of vehicles includes parked panels/vans/pickups involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	9,895	96.9
Brakes	79	
Lights	46	
Steering	24	
Wipers	5	3.1
Tires	63	
Trailer hitch	8	
Other	90	
Total no. of vehicles (defect stated)	10,210	
Defect not stated	6,108	
GRAND TOTAL	16,318	

The Environment

Light	Number of Accidents	Percent
Dawn	179	1.2
Daylight	9,816	65.8
Dusk	571	3.8
Darkness (road lighted)	2,432	16.3
Darkness (road unlighted)	1,909	12.8
Total no. of accidents (light stated)	14,907	
Light not stated	58	
GRAND TOTAL	14,965	

Note: Figures indicate number of accidents involving panels/vans/pickups occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	8,033	53.7
Cloudy	4,338	29.0
Fog	307	2.1
Mist	500	3.3
Rain	1,001	6.7
Sleet/hail	143	1.0
Snow	1,256	8.4
Strong wind	400	2.7
Other	51	0.3

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	124	6.1
Underpass/bridge support	8	0.4
Building	72	3.5
Culvert	54	2.6
Curb	52	2.5
Ditch	579	28.4
Island/raised median	14	0.7
Embankment/retaining wall	49	2.4
Fence	135	6.6
Guardrail	70	3.4
Light pole	130	6.4
Sign post	113	5.5
Tree or shrubbery	134	6.6
Utility pole	185	9.1
Other pole or support	47	2.3
Mailbox	37	1.8
Impact attenuator	20	1.0
Other	219	10.7

12.5% of panels/vans/pickups involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	11,163	74.8
Traffic signals	1,625	10.9
Stop sign	1,531	10.3
Yield sign	132	
No passing zone (marked)	86	
R.R. warning sign	22	4.0
R.R. automatic signal	18	
R.R. crossing gate	12	
Other	333	
Total no. of accidents (control stated)	14,922	
Control not stated	43	
GRAND TOTAL	14,965	

Iowa Accidents Involving

Straight Trucks

In 1982 there were:

3 straight truck occupants killed
203 straight truck occupants injured
1,678 accidents involving straight trucks
15 fatal accidents involving straight trucks
440 personal injury accidents involving straight trucks
1,223 property damage accidents involving straight trucks

15 persons were killed in straight truck accidents. Of this number 12 (80.0 percent) were not straight truck occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	34	2.1
Improper passing	27	1.7
Left of center, not passing	28	1.7
Failure to yield	110	6.7
Wrong way, one-way road	0	--
Speed too fast	58	3.6
Drag racing	0	--
Improper turn	28	1.7
Improper lane change	23	1.4
Following too close	42	2.6
Improper or no signal	13	0.8
Disregarded R.R. signal	3	0.2
Disregarded warning signal	5	0.3
Reckless driving	2	0.1
Improper backing	48	2.9
Illegal or improper parking	5	0.3
Failure to have control	152	9.3
Lights not on	0	--
Inattentive/distracted	60	3.7
Confused/inexperienced	19	1.2
Vision obscured	163	10.0
Oversized vehicle	10	0.6
Other	107	6.6

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	1,566	92.4
Drinking - impaired	10	0.6
Drinking - not impaired	10	0.6
Drugs	0	--
Physical defect	3	0.2
Fatigued	4	0.2
Apparently asleep	5	0.3
Ill	1	0.1
Under medication	1	0.1
Infirmities of age	3	0.2
Other	5	0.3
Total no. of drivers (condition stated)	1,608	
Condition not stated	25	
GRAND TOTAL	1,633	

Driver Sex	Number of Drivers	Percent
Male	1,568	97.5
Female	41	2.5
Total no. of drivers (sex known)	1,609	
Sex not stated	24	
GRAND TOTAL	1,633	

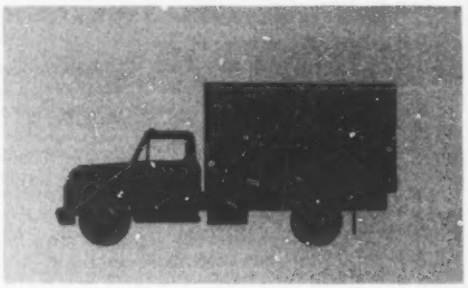
Driver Age	Number of Drivers	Percent
15 & younger	1	0.1
16	4	0.3
17	11	0.7
18	33	2.1
19	36	2.3
20-24	327	20.6
25-34	505	31.8
35-44	265	16.7
45-54	185	11.6
55-64	167	10.5
65-74	51	3.2
75 & older	5	0.3
Total no. of drivers (age known)	1,590	
Age not stated	43	
GRAND TOTAL	1,633	

Note: In 1982 straight truck accidents, 72.3 percent of the straight truck occupants who were killed or injured were not wearing seat belts, 1.5 percent were wearing seat belts, and seat belt use was unknown or unreported for 26.2 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	1,029	61.4
Turning left	173	10.3
Turning right	120	7.2
Backing	81	4.8
Stopped in traffic	53	3.2
Parked	63	3.8
Making U-turn	5	9.3
Passing	41	
Changing lanes	25	
Merging	1	
Parking	0	
Slowing-stopping	34	
Unattended moving vehicle	15	
Other	35	
Total no. of vehicles (action stated)	1,675	
Action not stated	36	
GRAND TOTAL	1,711	

Note: Total number of vehicles includes parked straight trucks involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	1,107	90.9
Brakes	51	9.1
Lights	15	
Steering	10	
Wipers	0	
Tires	8	
Trailer hitch	2	
Other	25	
Total no. of vehicles (defect stated)	1,218	
Defect not stated	493	
GRAND TOTAL	1,711	

The Environment

Light	Number of Accidents	Percent
Dawn	19	1.1
Daylight	1,413	84.4
Dusk	36	2.2
Darkness (road lighted)	102	6.1
Darkness (road unlighted)	104	6.2
Total no. of accidents (light stated)	1,674	
Light not stated	4	
GRAND TOTAL	1,678	

Note: Figures indicate number of accidents involving straight trucks occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	882	52.6
Cloudy	542	32.3
Fog	43	2.6
Mist	53	3.2
Rain	106	6.3
Sleet/hail	15	0.9
Snow	129	7.7
Strong wind	58	3.5
Other	2	0.1

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	26	10.8
Underpass/bridge support	5	2.1
Building	9	3.8
Culvert	9	3.8
Curb	7	2.9
Ditch	85	35.4
Island/raised median	1	0.4
Embankment/retaining wall	2	0.8
Fence	11	4.6
Guardrail	5	2.1
Light pole	10	4.2
Sign post	14	5.8
Tree or shrubbery	5	2.1
Utility pole	15	6.3
Other pole or support	4	1.7
Mailbox	4	1.7
Impact attenuator	3	1.3
Other	25	10.4

14.0% of straight trucks involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	1,196	71.4
Traffic signals	178	10.6
Stop sign	190	11.4
Yield sign	6	6.6
No passing zone (marked)	21	
R.R. warning sign	3	
R.R. automatic signal	3	
R.R. crossing gate	2	
Other	75	
Total no. of accidents (control stated)	1,674	
Control not stated	4	
GRAND TOTAL	1,678	

Tow/Maintenance/ Construction Vehicles

In 1982 there were:

2 tow/maintenance/construction vehicle occupants killed
50 tow/maintenance/construction vehicle occupants injured
513 accidents involving tow/maintenance/construction vehicles

3 fatal accidents involving tow/maintenance/construction vehicles
115 personal injury accidents involving tow/maintenance/construction vehicles
395 property damage accidents involving tow/maintenance/constructio vehicles

3 persons were killed in tow/maintenance/construction vehicle accidents. Of this number 1 (33.3 percent) was not a tow/maintenance/construction vehicle occupant.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	4	0.8
Improper passing	2	0.4
Left of center, not passing	7	1.5
Failure to yield	39	8.1
Wrong way, one-way road	2	0.4
Speed too fast	10	2.1
Drag racing	0	--
Improper turn	6	1.3
Improper lane change	2	0.4
Following too close	3	0.6
Improper or no signal	4	0.8
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	1	0.2
Improper backing	20	4.2
Illegal or improper parking	3	0.6
Failure to have control	37	7.7
Lights not on	0	--
Inattentive/distracted	15	3.1
Confused/inexperienced	4	0.8
Vision obscured	60	12.5
Oversized vehicle	6	1.3
Other	33	6.9

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	457	96.6
Drinking - impaired	5	1.1
Drinking - not impaired	4	0.8
Drugs	0	--
Physical defect	0	--
Fatigued	4	0.8
Apparently asleep	2	0.4
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	1	0.2
Total no. of drivers (condition stated)	473	
Condition not stated	7	
GRAND TOTAL	480	

Driver Sex	Number of Drivers	Percent
Male	449	97.2
Female	13	2.8
Total no. of drivers (sex known)	462	
Sex not stated	18	
GRAND TOTAL	480	

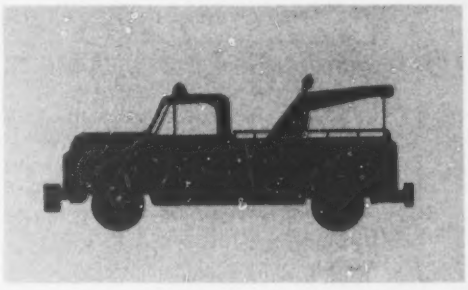
Driver Age	Number of Drivers	Percent
15 & younger	1	0.2
16	1	0.2
17	3	0.7
18	8	1.8
19	8	1.8
20-24	72	15.8
25-34	142	31.1
35-44	68	14.9
45-54	70	15.3
55-64	76	16.6
65-74	8	1.8
75 & older	0	--
Total no. of drivers (age known)	457	
Age not stated	23	
GRAND TOTAL	480	

Note: In 1982 tow/maintenance/construction accidents, 80.8 percent of the tow/-maintenance/construction vehicle occupants who were killed or injured were not wearing seat belts, 1.9 percent were wearing seat belts, and seat belt use was unknown or unreported for 17.3 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	259	52.7
Turning left	40	8.1
Turning right	23	4.7
Backing	63	12.8
Stopped in traffic	29	5.9
Parked	30	6.1
Making U-turn	4	9.6
Passing	0	
Changing lanes	2	
Merging	3	
Parking	1	
Slowing-stopping	8	
Unattended moving vehicle	5	
Other	24	
Total no. of vehicles (action stated)	491	
Action not stated	24	
GRAND TOTAL	515	

Note: Total number of vehicles includes parked tow/maintenance/construction vehicles involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	365	94.8
Brakes	6	5.2
Lights	1	
Steering	0	
Wipers	0	
Tires	1	
Trailer hitch	0	
Other	12	
Total no. of vehicles (defect stated)	385	
Defect not stated	130	
GRAND TOTAL	513	

The Environment

Light	Number of Accidents	Percent
Dawn	7	1.4
Daylight	402	78.5
Dusk	13	2.5
Darkness (road lighted)	55	10.7
Darkness (road unlighted)	35	6.8
Total no. of accidents (light stated)	512	
Light not stated	1	
GRAND TOTAL	513	

Note: Figures indicate number of accidents involving tow/maintenance/construction vehicles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	258	50.3
Cloudy	152	29.6
Fog	9	1.8
Mist	17	3.3
Rain	19	3.7
Sleet/hail	5	1.0
Snow	67	13.1
Strong wind	29	5.7
Other	0	--

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	4	8.7
Underpass/bridge support	0	--
Building	0	--
Culvert	0	--
Curb	2	4.3
Ditch	15	32.6
Island/raised median	0	--
Embankment/retaining wall	0	--
Fence	2	4.3
Guardrail	2	4.3
Light pole	5	10.9
Sign post	1	2.2
Tree or shrubbery	2	4.3
Utility pole	3	6.5
Other pole or support	1	2.2
Mailbox	0	--
Impact attenuator	1	2.2
Other	8	17.4

8.9% of tow/maintenance/construction vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	397	77.7
Traffic signals	39	7.6
Stop sign	45	8.8
Yield sign	1	5.9
No passing zone (marked)	6	
R.R. warning sign	2	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	21	
Total no. of accidents (control stated)	511	
Control not stated	2	
GRAND TOTAL	513	

Iowa Accidents Involving

Truck Tractors

In 1982 there were:

0 truck tractor occupants killed
21 truck tractor occupants injured
201 accidents involving truck tractors
5 fatal accidents involving truck tractors
46 personal injury accidents involving truck tractors
150 property damage accidents involving truck tractors

5 persons were killed in truck tractor accidents. Of this number 5 (100.0 percent) were not truck tractor occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	7	3.7
Improper passing	4	2.1
Left of center, not passing	1	0.5
Failure to yield	5	2.6
Wrong way, one-way road	0	--
Speed too fast	2	1.1
Drag racing	0	--
Improper turn	4	2.1
Improper lane change	4	2.1
Following too close	4	2.1
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	3	1.6
Illegal or improper parking	3	1.6
Failure to have control	21	11.1
Lights not on	0	--
Inattentive/distracted	4	2.1
Confused/inexperienced	4	2.1
Vision obscured	21	11.1
Oversized vehicle	2	1.1
Other	7	3.7

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	176	93.6
Drinking - impaired	1	0.5
Drinking - not impaired	2	1.1
Drugs	0	--
Physical defect	1	0.5
Fatigued	3	1.6
Apparently asleep	3	1.6
Ill	0	--
Under medication	0	--
Infirmities of age	1	0.5
Other	1	0.5
Total no. of drivers (condition stated)	188	
Condition not stated	2	
GRAND TOTAL	190	

Driver Sex	Number of Drivers	Percent
Male	181	97.8
Female	4	2.2
Total no. of drivers (sex known)	185	
Sex not stated	5	
GRAND TOTAL	190	

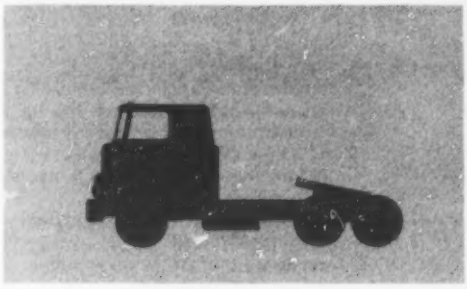
Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	1	0.5
19	1	0.5
20-24	35	19.1
25-34	59	32.2
35-44	44	24.0
45-54	29	15.8
55-64	13	17.1
65-74	1	0.5
75 & older	0	--
Total no. of drivers (age known)	183	
Age not stated	7	
GRAND TOTAL	190	

Note: In 1982 truck tractor accidents, 66.7 percent of the truck tractor occupants who were killed or injured were not wearing seat belts. 9.5 percent were wearing seat belts, and seat belt use was unknown or unreported for 23.8 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	101	52.1
Turning left	17	8.8
Turning right	16	8.2
Backing	11	5.7
Stopped in traffic	8	4.1
Parked	13	6.7
Making U-turn	0	14.4
Passing	7	
Changing lanes	6	
Merging	5	
Parking	2	
Slowing-stopping	8	
Unattended moving vehicle	0	
Other	0	
Total no. of vehicles (action stated)	194	
Action not stated	9	
GRAND TOTAL	203	

Note: Total number of vehicles includes parked truck tractors involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	127	92.7
Brakes	4	7.3
Lights	0	
Steering	1	
Wipers	0	
Tires	2	
Trailer hitch	0	
Other	3	
Total no. of vehicles (defect stated)	137	
Defect not stated	66	
GRAND TOTAL	203	

The Environment

Light	Number of Accidents	Percent
Dawn	2	1.0
Daylight	147	73.5
Dusk	7	3.5
Darkness (road lighted)	14	7.0
Darkness (road unlighted)	30	15.0
Total no. of accidents (light stated)	200	
Light not stated	1	
GRAND TOTAL	201	

Note: Figures indicate number of accidents involving truck tractors occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	92	45.8
Cloudy	61	30.3
Fog	6	3.0
Mist	10	5.0
Rain	18	9.0
Sleet/hail	1	0.5
Snow	27	13.4
Strong wind	8	4.0
Other	0	--

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	2	5.6
Underpass/bridge support	0	--
Building	0	--
Culvert	0	--
Curb	0	--
Ditch	10	27.8
Island/raised median	1	2.8
Embankment/retaining wall	0	--
Fence	2	5.6
Guardrail	5	13.9
Light pole	4	11.1
Sign post	3	8.3
Tree or shrubbery	0	--
Utility pole	1	2.8
Other pole or support	1	2.8
Mailbox	0	--
Impact attenuator	0	--
Other	7	19.4

17.7% of truck tractors involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	138	69.3
Traffic signals	30	15.1
Stop sign	21	10.6
Yield sign	0	5.0
No passing zone (marked)	1	
R.R. warning sign	0	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	9	
Total no. of accidents (control stated)	199	
Control not stated	2	
GRAND TOTAL	201	

Truck Tractors With Trailers

In 1982 there were:

3 occupants of truck tractors with trailers killed
373 occupants of truck tractors with trailers injured
2,587 accidents involving truck tractors with trailers
50 fatal accidents involving truck tractors with trailers
705 personal injury accidents involving truck tractors with trailers
1,832 property damage accidents involving truck tractors with trailers

55 persons were killed in truck tractor with trailer accidents. Of this number, 52 (94.5 percent) were not occupants of truck tractors with trailers.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	34	1.3
Improper passing	73	2.8
Left of center, not passing	14	0.5
Failure to yield	71	2.7
Wrong way, one-way road	1	--
Speed too fast	132	5.0
Drag racing	0	--
Improper turn	64	2.4
Improper lane change	71	2.7
Following too close	67	2.5
Improper or no signal	11	0.4
Disregarded R.R. signal	5	0.2
Disregarded warning signal	9	0.3
Reckless driving	5	0.2
Improper backing	38	1.4
Illegal or improper parking	8	0.3
Failure to have control	341	12.9
Lights not on	0	--
Inattentive/distracted	88	3.3
Confused/inexperienced	26	1.0
Vision obscured	223	8.4
Oversized vehicle	18	0.7
Other	178	6.7

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	2,504	96.5
Drinking - impaired	16	0.6
Drinking - not impaired	7	0.3
Drugs	1	--
Physical defect	2	0.1
Fatigued	22	0.8
Apparently asleep	33	1.3
Ill	0	--
Under medication	2	0.1
Infirmities of age	1	--
Other	8	0.3
Total no. of drivers (condition stated)	2,596	
Condition not stated	49	
GRAND TOTAL	2,645	

Driver Sex	Number of Drivers	Percent
Male	2,539	98.3
Female	43	1.7
Total no. of drivers (sex known)	2,582	
Sex not stated	63	
GRAND TOTAL	2,645	

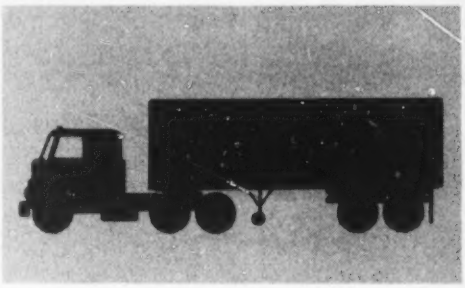
Driver Age	Number of Drivers	Percent
15 & younger	1	--
16	0	--
17	1	--
18	3	0.1
19	11	0.4
20-24	338	13.3
25-34	912	35.8
35-44	650	25.6
45-54	414	16.3
55-64	200	7.9
65-74	12	0.5
75 & older	2	0.1
Total no. of drivers (age known)	2,544	
Age not stated	101	
GRAND TOTAL	2,645	

Note: In 1982 truck tractor with trailer accidents, 75.3 percent of the truck tractor with trailer occupants who were killed or injured were not wearing seat belts, 4.8 percent were wearing seat belts, and seat belt use was unknown or unreported for 19.9 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	1,731	65.9
Turning left	160	6.1
Turning right	219	8.3
Backing	63	2.4
Stopped in traffic	54	2.1
Parked	56	2.1
Making U-turn	7	13.1
Passing	103	
Changing lanes	71	
Merging	9	
Parking	6	
Slowing-stopping	80	
Unattended moving vehicle	8	
Other	60	
Total no. of vehicles (action stated)	2,627	
Action not stated	82	
GRAND TOTAL	2,709	

Note: Total number of vehicles includes parked truck tractors with trailers involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	1,859	93.7
Brakes	51	2.6
Lights	8	
Steering	10	
Wipers	1	3.8
Tires	28	
Trailer hitch	8	
Other	20	
Total no. of vehicles (defect stated)	1,985	
Defect not stated	724	
GRAND TOTAL	2,709	

The Environment

Light	Number of Accidents	Percent
Dawn	57	2.2
Daylight	1,738	67.4
Dusk	66	2.6
Darkness (road lighted)	229	8.9
Darkness (road unlighted)	490	19.0
Total no. of accidents (light stated)	2,580	
Light not stated	7	
GRAND TOTAL	2,587	

Note: Figures indicate number of accidents involving truck tractors with trailers occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	1,196	46.2
Cloudy	804	31.1
Fog	69	2.7
Mist	112	4.3
Rain	205	7.9
Sleet/hail	49	1.9
Snow	311	12.0
Strong wind	162	6.3
Other	12	0.5

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	39	7.5
Underpass/bridge support	10	1.9
Building	12	2.3
Culvert	4	0.8
Curb	11	2.1
Ditch	167	31.9
Island/raised median	6	1.1
Embankment/retaining wall	12	2.3
Fence	38	7.3
Guardrail	42	8.0
Light pole	29	5.5
Sign post	40	7.6
Tree or shrubbery	12	2.3
Utility pole	18	3.4
Other pole or support	19	3.6
Mailbox	4	0.8
Impact attenuator	1	0.2
Other	59	11.3

19.3% of truck tractors with trailers involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	1,908	74.0
Traffic signals	312	12.1
Stop sign	154	6.0
Yield sign	7	
No passing zone (marked)	45	
R.R. warning sign	6	8.0
R.R. automatic signal	10	
R.R. crossing gate	4	
Other	134	
Total no. of accidents (control stated)	2,580	
Control not stated	7	
GRAND TOTAL	2,587	